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## LIST OF ACRONYMS & ABBREVIATIONS

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ABR	auditory brainstem response
ACFCMA	Atlantic Coastal Fisheries Cooperative Management Act
ACL	acoustic command link
ACSC	AEGIS Combat Systems Center
ADCAP	advanced capability
ADC	acoustic device countermeasure
AEAU	Alternate Energy and Alternate Use
AEGIS	Advanced Electronic Guidance and Instrumentation System
AEP	auditory-evoked potential
AFB	Air Force base
Ag	silver
AIP	air-independent propulsion
Al(ClO <sub>4</sub> ) <sub>3</sub>	aluminum-perchlorate
AIWW	Atlantic Intracoastal Waterway
ALCLO	pyrotechnic initiator
ALFS	Airbourne, Low Frequency Sonar
AMVER	Automated Mutual-Assistance Vessel Rescue System
ANG	Air National Guard
APPS	Act to Prevent Pollution from Ships
ARTCC	Air Route Traffic Control Center
ASA	Abandoned Shipwreck Act
ASMFC	Atlantic States Marine Fisheries Commission
ASROC	antisubmarine rocket
ASSRT	Atlantic Sturgeon Status Review Team
ASW	antisubmarine warfare
ATCAA	Air Traffic Control Assigned Airspace
ATOC	acoustic thermometry of ocean climate
AtoN	Aid to Navigation
ATS	asymptotic threshold shift
AUTEC	Atlantic Undersea Test and Evaluation Center
AWOIS	Automated Wreck and Obstruction Information System
BGEPA	Bald and Golden Eagle Protection Act
BRAC	Base Realignment and Closure
BSS	buoyancy subsystem
BT	bathythermograph
BTar	Bombing Target
C	Celsius
CAA	Clean Air Act
CAMA	Coastal Area Management Act
CASS	Comprehensive Acoustic Simulation System

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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CBPA	Chesapeake Bay Preservation Area
CCD	coastal consistency determination
CCL	curved carapace length
CD-ROM	compact disc, read-only memory
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CETAP	Cetacean and Turtle Assessment Program
CFMETR	Canadian Forces Maritime Experimental and Test Ranges
CFR	Code of Federal Regulations
CG	guided missile cruiser
CH <sub>4</sub>	methane
CHASN	Charleston, South Carolina
CH <sub>2</sub> O	formaldehyde
CHPT	Cherry Point
cm	centimeter
CNA	Center for Naval Analyses
CNO	Chief of Naval Operations
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
COMPTUEX	composite training unit exercise
CREEM	Centre for Environmental and Ecological Modelling
CRMP	Coastal Resources Management Program
CSG	carrier strike group
CT	computerized tomography
CTF	cable termination facility
Cu	copper
CV	aircraft carrier
CWA	Clean Water Act
CZ	convergence zone
CZMA	Coastal Zone Management Act
CZMP	Coastal Zone Management Plan
dB	decibel
DBDB-V	Digitized Bathymetric Data Base - Variable Resolution
DCS	decompression sickness
DDG	guided missile destroyer
deg	degree
DEIS	draft environmental impact statement
DELMARVA	Delaware, Maryland, Virginia
DICASS	Directional Command Activated Sonobuoy System
DOSITS	Discovery of Sound in the Sea [University of Rhode Island]
DMA	Dynamic Management Areas

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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DOC	Department of Commerce
DoD	Department of Defense
DoI	Department of the Interior
DoN	Department of the Navy
DOSITS	Discovery of Sound in the Sea
DSL	deep scattering layer
D-tag	Digital acoustic recording tag.
EEZ	Exclusive Economic Zone
EFH	essential fish habitat
Eh	oxidation
EIS	environmental impact statement
EL	energy flux density level
EMATT	expendable mobile acoustic training target
EMF	electromagnetic field
EO	executive order
EPAct	Energy Policy Act of 2005
ERL	effects range low
ERM	effects range median
ESA	Endangered Species Act
ESG	Environmental Sciences Group, Royal Military College of Canada
et al.	et alia (and others)
EWS	Early Warning System
EXTORP	exercise torpedo
fm	fathom
F	Fahrenheit
FACSFAC	Fleet Area Control and Surveillance Facility
FCMP	Florida Coastal Management Plan
FE	federal endangered (species)
FEIS	final environmental impact statement
FeO	ferrous oxide
FFG	frigate
FFWCC	Florida Fish and Wildlife Conservation Commission
FDEP	Florida Department of Environmental Protection
FL	Florida
FLDEP	Florida Department of Environmental Protection
FM	frequency modulation
FMC	Fishery Management Council
FMP	fishery management plan
FMRI	Florida Marine Research Institute
F RTP	Fleet Response Training Plan
ft	foot

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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FWC-DMF	Florida Fish and Wildlife Conservation Commission - Division of Marine Fisheries Management
FWPCA	Federal Water Pollution Control Act
FWRI	Fish and Wildlife Research Institute
FY	fiscal year
g	gram
GA	Georgia
gal	gallon
GAM	generalized additive models
GDEM <sub>V</sub>	Generalized Digital Environmental Model Variable
GIS	Geographic Information System
GMFMC	Gulf of Mexico Fishery Management Council
GOMEX	Gulf of Mexico
GoMOOS	Gulf of Maine Ocean Observing System
GRAB	Gaussian RAY Bundle
GTFP	green turtle fibropapillomatosis
H <sub>2</sub>	hydrogen
H <sub>2</sub> O	water
HAPC	habitat area of particular concern
HCl	hydrochloric acid
HCN	hydrocyanic acid
HF	high frequency
HFA	high frequency active
HITS	historical temporal shipping
HMS	highly migratory species
H <sub>2</sub> S	hydrogen sulfide
HSO <sub>3</sub>	bisulfite
Hz	Hertz
ICCAT	International Commission for the Conservation of Atlantic Tunas
ICOADS	International Comprehensive Ocean-Atmosphere Data Set
IFAW	International Fund for Animal Welfare
IFH	improved flex hose
IHA	incidental harassment authorization
IMDCC	Interagency Marine Debris Coordinating Committee
IMF	intermediate maintenance facility
in	inch
ISFMP	Interstate Fisheries Management Program
ITS	incidental take statement
IUSS	Integrated Undersea Surveillance System
IWC	International Whaling Commission

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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JAX	Jacksonville, Florida
JTFEX	joint task force exercises
KCl	potassium chloride
K <sub>2</sub> CO <sub>3</sub>	potassium carbonate
kg	kilogram
kHz	kilohertz
km	kilometer
KOH	potassium hydroxide
kt	knot
L	liter
lbs	pounds
LC	lethal concentration
LDEO	Lamont-Doherty Earth Observatory
LF	low frequency
LFA	low frequency active
Li	lithium
LiBr	lithium bromide
LiSO <sub>2</sub>	lithium sulfur dioxide
LiO <sub>2</sub>	lithium dioxide
LIPA	Long Island Power Authority
LOA	letter of authorization
μ	micro
μg/L	micrograms per liter
μPa	micro Pascal
μT	microTesla
m	meter
MAB	mid-Atlantic bight
MAD	magnetic anomaly detection
MAFMC	Mid-Atlantic Fisheries Management Council
MARPOL	International Convention for the Prevention of Pollution from Ships
MAUS	mid-Atlantic U.S.
MBTA	Migratory Bird Treaty Act
MCAS	Marine Corps air station
MCB	Marine Corps base
MF	mid-frequency
MFA	mid-frequency active
mg	milligram

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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mi	mile
min	minute
MINEX	mine warfare exercise
MIW	mine warfare
MMEM	Marine Mammal Effect Model
MMC	Marine Mammal Commission
MMPA	Marine Mammal Protection Act
MMRP	Marine Mammal Research Program
MMS	Minerals Management Service
MOUT	Military Operations in Urban Terrain
MPA	Marine Protected Area
MRA	marine resources assessment
MRFSS	marine recreational fishery statistics survey
MSA	Magnuson-Stevens Act
MU	management unit
N <sub>2</sub>	nitrogen
NAAQS	National Ambient Air Quality Standards
NAO	North Atlantic Oscillation
NARWC	North Atlantic Right Whale Consortium
NAS	naval air station
NASA	National Aeronautics and Space Administration
NATO	North Atlantic Treaty Organization
NAVFAC	Naval Facilities Engineering Command
NAVOCEANO	Naval Oceanographic Office Data User Warehouse
NAVSEA	Naval Sea Systems Command
NAVSEAINST	Naval Sea Systems Command Instruction
NC	North Carolina
NCCOSC	Naval Command Control & Ocean Survey Center
NCDCM	North Carolina Division of Coastal Management
NCDMF	North Carolina Division of Marine Fisheries
NDAA	National Defense Authorization Act
NEFMC	New England Fishery Management Council
NEFSC	Northeast Fisheries Science Center
NEPA	National Environmental Policy Act
NEUS	Northeastern U.S.
NEW	net explosive weight
NGA	National Geospatial-Intelligence Agency
NH <sub>3</sub>	ammonia
NHHC	Naval History and Heritage Command
NHPA	National Historic Preservation Act
NITS	noise-induced threshold shift
NIXIE	anti-torpedo decoy

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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NMFS	National Marine Fisheries Service
NM	nautical mile
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxide
NOA	notice of availability
NOAA	National Oceanic and Atmospheric Administration
NODC	National Oceanographic Data Center
NODE	Navy OPAREA Density Estimate
NOI	notice of intent
NOSC	Naval Ocean Systems Center
NOTAM	notice to airmen
NOTMAR	notice to mariners
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NR	not reported
NRC	National Research Council
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NS	naval station
NSFS	naval surface fire support
NSW	naval special warfare
NSWCIH	Naval Surface Warfare Center Indian Head
NSY	naval shipyard
NUMA	National Underwater and Marine Agency
NUWC	Naval Undersea Warfare Center
NWI	National Wetlands Inventory
OAML	Oceanographic and Atmospheric Master Library
OC	Ocean Conservancy
OCS	Outer Continental Shelf
OCSLA	Outer Continental Shelf Lands Act
OEA	overseas environmental assessment
OEIS	overseas environmental impact statement
ONI	Office of Naval Intelligence
OPAREA	operating area
OPNAVINST	Chief of Naval Operations Instruction
ORD	operational requirements document
oz	ounce
Pa	Pascal
PADI	Professional Association of Diving Instructors
Pb	lead
PbCl <sub>2</sub>	lead chloride

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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PbCO <sub>3</sub>	lead carbonate
PbO <sub>2</sub>	lead dioxide
PE	parabolic equation
PEA	programmatic environmental analysis
PEL	permissible exposure limit
PFP	Proposed Final Program
PL	public law
pH	alkalinity
PNAS	Proceedings of the National Academy of Sciences
ppb	parts per billion
ppm	parts per million
PQS	personal qualification standard
PRC	People's Republic of China
psu	practical salinity units
PTS	permanent threshold shift
PUTR	portable underwater tracking range
PVC	polyvinyl chloride
RDT&E	research, development, testing and evaluation
REXTORP	recoverable exercise torpedo
RHA	Rivers and Harbors Act
RI	Rhode Island
RL	received level
RMA	resource management area
rms	root mean square
ROC	range operations center
ROD	record of decision
ROS	reactive oxygen species
ROW	right-of-way
RPA	resource protection area
RUWPA	Research Unit for Wildlife Population Assessment
s	second
SAB	South Atlantic bight
SAFMC	South Atlantic Fisheries Management Council
SAR	stock assessment report
SAV	submerged aquatic vegetation
SC	South Carolina
SCAES	South Carolina Agricultural Station
SCDHEC	South Carolina Department of Health and Environmental Control
SCDNR	South Carolina Department of Natural Resources
SCEPS	stored chemical energy propulsion system
SCL	straight carapace length

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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SCSPA	South Carolina State Ports Authority
SD	standard deviation
SEAMAP	Southeast Area Monitoring and Assessment Program
SEFSC	Southeast Fisheries Science Center
SEIS	Supplemental Environmental Impact Statement
SEL	sound exposure level
SEUS	southeastern U.S.
SF <sub>6</sub>	sulfur hexafluoride
SFH	strong flex hose
SHPO	State Historic Preservation Office
SINKEX	sinking exercise of surface targets
SIPRNET	Secret Internet Protocol Router Network
SL	source level
SMA	Seasonal Management Areas
SMCA	Sunken Military Craft Act
SO <sub>2</sub>	sulfur dioxide
sonar	sound navigation and ranging
SOSUS	Sound Surveillance System
SPL	sound pressure level
SSBN	Ballistic Nuclear Submarine
SSC	Surveillance Support Center
SSGN	Nuclear Guided Missile Submarine
SSN	Attack Submarine (nuclear powered)
SSI	sea-shore interface
SST	sea surface temperature
SUA	Special Use Airspace
SURTASS LFA	Surveillance Towed Array Sensor System - Low Frequency Active
SWMU	solid waste management unit
SVP	sound velocity profile
TSD	temperature-dependant sex determination
T&E	test and evaluation
TED	Turtle Exclusion Device
TEU	twenty-foot equivalent
TEWG	Turtle Expert Working Group
TL	transmission loss
TS	threshold shift
TTS	temporary threshold shift
TWA	time-weighted average
ULT	unit level training
UME	unusual mortality event
UNCW	University of North Carolina-Wilmington

## LIST OF ACRONYMS & ABBREVIATIONS (CONT'D)

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UNDET	underwater detonation
UQC	underwater mobile sound communications
U.S.	United States
USACE	U.S. Army Corps of Engineers
USARPA	U.S. Army Publications Agency
USC	U.S. Code
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
USDI	U.S. Department of Interior
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USMC	U.S. Marine Corps
USNS	U.S. Naval Ship
USVI	U.S. Virgin Islands
USW	undersea warfare
USWTR	Undersea Warfare Training Range
VA	Virginia
VACAPES	Virginia Capes
VAST/IMPASS	Virtual At-Sea Training/Integrated Maritime Portable Acoustic Scoring and Simulator
VHF	very high frequency
yd	yard
VDGIF	Virginia Department of Game and Inland Fisheries
VDHR	Virginia Department of Historic Resources
VIMS	Virginia Institute of Marine Science
VLA	vertical launch anti-submarine rocket
VMRC	Virginia Marine Resources Commission
VRCA	Virginia Research Center for Archaeology
w	wavelength
W-(number)	warning area (with appropriate number)
WFF	Wallops Flight Facility
WHOI	Woods Hole Oceanographic Institution
XBT	expendable bathythermograph