

Acronyms and Abbreviations

A-A	Air-to-Air	CNO	Chief of Naval Operations
AAMEX	Air-to-Air Missile Exercise	CNRSW	Commander, Navy Region Southwest
AAV	Amphibious Assault Vehicle	CO	carbon monoxide
AAAV	Advanced Amphibious Assault Vehicle	CO ₂	carbon dioxide
AAW	Anti-Air Warfare	COMNAVSURFPAC	Commander Naval Surface Force, U.S. Pacific Fleet
ACHP	Advisory Council on Historic Preservation	COMPACFLT	Commander, Pacific Fleet
ACOT	Acoustic Thermometry of Ocean Climate	COMPTUEX	Composite Training Unit Exercise
ACM	Air Combat Maneuvering	CNRSW	Commander, Navy Region Southwest
ACTRLS	Acoustic Trials	CPAAA	Camp Pendleton Amphibious Assault Area
ADCAP	Advanced Capabilities	CPAVA	Camp Pendleton Amphibious Vehicle Training Area
ADEX	Air Defense Exercise	CPF	Commander, Pacific Fleet
AEER	Advanced Extended Echo Ranging	CPG-3	Commander, Amphibious Group 3
AESA	Airborne Electronically Scanned Array	CPS	Coastal Pelagic Species
AEW	Airborne Early Warning	CRRC	Combat Rubber Raiding Craft
AFP	Artillery Firing Points	CSAR	Combat Search and Rescue
AgCl ₂	Silver chloride	CSG	Carrier Strike Group
AICUZ	Air Installation Compatible Use Zone	CTF	Cable Termination Facility
ALMDS	Airborne Laser Mine Detection System	CUPA	Certified Unified Program Agency
AMNS	Airborne Mine Neutralization System	CV	Coefficient of Variation
AMP	Artillery Maneuver Points	CW	Continuous Wave
AMW	Amphibious Warfare	CWA	Clean Water Act
APZ	Accident Potential Zone	CWC	California Water Code
ARG	Amphibious Ready Group	CZMA	Coastal Zone Management Act
ARG CERT	ARG Certification Exercise	DACT	Dissimilar Air Combat Training
ARPA	Advanced Research Projects Agency	dB	decibel
ARPA	Archaeological Resources Protection Act	dB/km	decibel per kilometer
ARTCC	Air Route Traffic Control Center	dB(A)	decibel, A-weighted
ASBS	Areas of Special Biological Significance	DD(X)	Land Attack Destroyer
ASBATS	At Sea Bearing Accuracy Tests	DHS	Department of Health Services
ASUW	Anti-Surface Warfare	DoD	Department of Defense
ASW	Anti-Submarine Warfare	DoN	Department of the Navy
ATACMS	Army Tactical Missile System	EA	Environmental Assessment
AVMA	Assault Vehicle Maneuver Area	EC	Electronic Combat
AVMC	Assault Vehicle Maneuver Corridor	EFEX	Expeditionary Firing Exercise
AVMR	Assault Vehicle Maneuver Road	EFH	Essential Fish Habitat
BATS	Ballistic Aerial Target System	EFV	Expeditionary Fighting Vehicle
BDU	Bomb Dummy Unit	EIS	Environmental Impact Statement
BEU	Bachelor Enlisted Quarters	EMATT	Expendable Mobile ASW Training Target
BFM	Basic Fighter Maneuvers	EMR	electromagnetic radiation
BIP	blow-in-place	ENETA	Encinitas Naval Electronic Test Area
BLT	Battalion Landing Team	EO	Executive Order
BMP	Best Management Practice	EOD	Explosive Ordnance Disposal
BN Landing	Battalion Landing	EPA	Environmental Protection Agency
BOMBEX	Bombing Exercise	EPCRA	Emergency Planning and Community Right-to-Know Act
BPAUV	Battlespace Preparation Autonomous Underwater Vehicle	ESA	Endangered Species Act
BTS	Basic Training Site	ESG	Expeditionary Strike Group
BUDs	Basic Underwater Demolition School	ESQD	Explosive Safety Quantity-Distance
°C	Degrees Celsius	ESU	Evolutionary Significant Unit
C3F	Commander, Third Fleet	EW	Electronic Warfare
CAE	Control Area Extensions	EXTORP	Exercise Torpedo
Cal-EPA	California Environmental Protection Agency	°F	Degrees Fahrenheit
CAS	Close Air Support	FAA	Federal Aviation Administration
CCA	California Coastal Act	FACSFAC	Fleet Area Control and Surveillance Facility
CDFG	California Department of Fish and Game	FCLP	Field Carrier Landing Practice
CDMG	California Division of Mines and Geology	FeO	iron oxide
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	FL	Flight Level
CEQ	Council on Environmental Quality	FLEETEX	Fleet Exercise
CFFC	Commander, United States Navy Fleet Forces Command	FLETA	Fleet Training Area
CFR	Code of Federal Regulations	FM	Frequency Modulated
CH ₂ O	formaldehyde	FONSI	Finding of No Significant Impact
CH ₄	methane	FPT	Fleet Project Team
CHRIMP	Consolidated Hazardous Material Reutilization and Inventory Management Program	FRP	Fleet Response Plan
CITES	Convention on International Trade in Endangered Species	FRTP	Fleet Response Training Plan
cm	centimeter	FSAs	Fire Support Areas
		FSCEX	Fire Support Coordination Center Exercise

ft		foot	LMRS	Long-Term Mine Reconnaissance System
FY		Fiscal Year	LNG	Liquefied Natural Gas
g/L		grams per liter	Lpd	liters per day
gal.		gallon	LTR	Laser Training Range
			m	mile
GBU		Glide Bomb Units	MAGTF	Marine Air Ground Task Force
gC		grams Carbon	MARFORPAC	Marine Forces Pacific
gpd		gallons per day	MAROPS	maritime operations
GUNEX		Gun Exercise	MCM	Mine Countermeasures
H ₂		hydrogen gas	MDS	Maritime Desert Scrub
HABS		Historic American Building Survey	MFA	Mid-Frequency Active
HAER		Historic American Engineering Record	MEU	Marine Expeditionary Unit
HAPC		Habitat Area of Particular Concern	mg/L	milligrams per liter
HCL		hydrogen chloride	mi.	mile
HCN		hydrogen cyanide	MINEX	Mine Laying Exercise
HCOTA		Helicopter Offshore Training Area	MIR	Missile Impact Range
HERO		Hazards of Electromagnetic Radiation to Ordnance	MISR	Missile Range
HFA		High-Frequency Active	MISSILEX	Missile Exercise
HMMWV		High Mobility Many Wheeled Vehicle	MIW	Mine Warfare
HMS		Highly Migratory Species	mL/L	milliliters per liter
HMX		High Melting Explosive	mm	Millimeter
HSO ₃		hydrogen sulfate	MMPA	Marine Mammal Protection Act
Hz		Hertz	MMR	Military Munitions Rule
IAC		Integrated Anti-Submarine Warfare Course	MMS	Minerals Management Service
ICRMP		Integrated Cultural Resources Management Plan	MOA	Military Operating Area
IEER		Improved Extended Echo Ranging	MPA	Maritime Patrol Aircraft
IFH		Improved Flex Hose	MPCD	Marine Pollution Control Device
IFR		Instrument Flight Rules	MPRSA	Marine Protection, Research, Sanctuaries Act
I MARDIV		First Marine Division	MRE	major range exercise
I MEF		First Marine Expeditionary Force	MSFCMA	Magnuson-Stevens Fisheries Conservation and Management Act
INRMP		Integrated Natural Resources Management Plan	MSL	Mean Sea Level
IRP		Installation Restoration Program	mt	metric tons
IOA		Infantry Operations Area	MTR	Mine Training Range
ISE		Independent Steaming Exercise	n.d.	no date
ISR		Intelligence, Surveillance and Reconnaissance	n.e.w.	net explosive weight
IWC		International Whaling Commission	N ₂	nitrogen gas
JNTC		Joint National Training Capability	NAGPRA	Native American Grave Protection and Repatriation Act
JSOW		Joint Standoff Weapons	NALF	Naval Auxiliary Landing Field
JTFEX		Joint Task Force Exercise	NAOPA	Northern Air Operating Area
K ₂ CO ₃		potassium carbonate	NAS	Naval Air Station
KB(X)		Kernel Blitz Experimental	NASNI	Naval Air Station North Island
kg		kilogram	NAVSEA	Naval Sea Systems Command
kHz		kilohertz	NAVSPECWAR	Naval Special Warfare
km		kilometer	NAWCWPNS	Naval Air Warfare Center Weapons Division
km ²		kilometers, square	NAWQC	National Ambient Water Quality Concentrations
KOH		potassium hydroxide	NB	Naval Base
KTR		Kingfisher Training Range	NBC	Naval Base Coronado
L		liter	NEPA	National Environmental Policy Act
L ₁₀		noise level exceeded 10 percent of the time	NERRS	National Estuarine Research Reserve System
L ₅₀		noise level exceeded 50 percent of the time	NGA	National Geospatial Intelligence Agency
L ₉₀		noise level exceeded 90 percent of the time	NGF	Naval Gunfire
LAAW		Light Anti-Armor-Weapon	NH ₃	ammonia
LANDNAV		Land Navigation	NH ₄ ClO ₄	ammonium perchlorate
LASM		Land Attack Standard Missile	NHPA	National Historic Preservation Act
LAV		Light Armored Vehicle	nm	Nautical Miles
lb		pound	nm ²	Square Nautical Miles
LCAC		Landing Craft Air Cushion	NMFS	National Marine Fisheries Service
LCS		Littoral Combat Ship	NO ₂	nitrogen dioxide
LCU		Landing Craft, Utility	NOAA	National Oceanographic and Atmospheric Administration
L _{dn}		Day-Night Average Sound Level	NOI	Notice of Intent
L _{eq}		Equivalent Sound Level	NOTAM	Notice to Airmen
LFA		Low-frequency Active	NOTMAR	Notice to Marines
LGTR		Laser Guided Training Round	NOTS	Naval Ordnance Test Station
LiBr		lithium bromide	NPDES	National Pollutant Discharge Elimination System
Li ₂ SO ₂		lithium sulfur oxide	NPS	National Park Service
L _{max}		maximum sound level	NRHP	National Register of Historic Places
L _{min}		minimum sound level	NRO	Natural Resources Office
			NS	Nearshore

NSFS	Naval Surface Fire Support	SFH	Strong Flex Hose
NSM	New Strike Missile	SHOBA	Shore Bombardment Area
NSW	Naval Special Warfare	SHPO	State Historic Preservation Officer
NSWG-1	Naval Special Warfare Group One	SINKEX	Sinking Exercise
NUWC	Navy Undersea Warfare Center	SIP	State Implementation Plan
OAMCM	Organic Airborne Mine Countermeasures	SLAM	Sea-Launched Anti-Air Missile
OASIS	Organic Airborne and Surface Influence Sweep	SLC	State Lands Commission
OCE	Officer Conducting the Exercise	SO ₂	sulfur dioxide
OCM	Oil Content Monitor	SOA	Small Object Avoidance
OEA	Overseas Environmental Assessment	SOAR	Southern California ASW Range
OEIS	Overseas Environmental Impact Statement	SOC	Special Operations Capable
OMCM	Organic Mine Countermeasures	SOCAL	Southern California
OP	Observation Post	SOCCERT	Special Operations Capable Certifications
OPA	Oil Pollution Act of 1990	SOP	Standard Operating Procedure
OPAREA	Operating Area	SPCC	Spill Prevention, Control, and Countermeasures
OPFOR	Opposition Force	SPCOA	San Pedro Channel Operating Area
OPNAVISNT	Chief of Naval Operations' Instructions	S-S	Surface-to-Surface
OS	Offshore	SSC	Space and Naval Warfare Systems Center
OTB	Over the Beach	SSG	Surface Strike Group
PA	Programmatic Agreement	SSRNM	Surface Ship Radiated Noise Measurement
PAH	Polycyclic Aromatic Hydrocarbons	SSTC	Silver Strand Training Complex
Pb ⁺²	lead	STOM	Ship-to-Objective Maneuver
PbCl ₂	lead chloride	STW	Strike Warfare
PbCO ₃	lead carbonate	SUA	Special Use Airspace
PbO	lead oxide	SURTASS	Surveillance Towed-Array Sensor System
PBX	plastic bonded explosives	SUW	Surface Warfare
pH	alkalinity	SWATs	Special Warfare Training Areas
PL	Public Law	SWCC	Special Warfare Combatant Crew
PMAP	Protective Measures Assessment Protocol	SWRCB	State Water Resources Control Board
PMAR	Navy Primary Mission Area	SWS	SEAL Weapons System
PMG	Preliminary Remediation Goals	SWTR	Shallow Water Training Range
PMSR	Point Mugu Sea Range	TAP	Tactical Training Theater Assessment and Planning
ppb	parts per billion	TARs	Training Areas and Ranges
PRBO	Point Reyes Bird Observatory	TLAM	Tomahawk Land Attack Missile
OCHA	Occupational Safety and Health Administration	TMA	Tactical Maneuvering Areas
QA	Quality Assurance	TORPEX	Torpedo Exercise
QC	Quality Control	TRACEX	Tracking Exercise
RAMCIS	Rapid Airborne Mine Clearance System	TSCA	Toxic Substances Control Act
RCD	Required Capabilities Document	TSD	Transfer, Storage, or Disposal
RCRA	Resource Conservation and Recovery Act	TWR	Torpedo Weapons Retriever
RDT&E	Research, Development, Test and Evaluation	UAS	Unmanned Aerial System
RDX	Royal Demolition Explosive	UAV	Unmanned Aerial Vehicle
REWS	Range Electronic Warfare Stimulator	µg/L	micrograms per liter
REXTORP	Recoverable Exercise Torpedo	µPA	micro-Pascal
RF	Radio Frequency	US ³	Unmanned Surface Sweep System
RMS	Remote Mine Hunting System	USV	Unmanned Surface Vehicle
ROC	Range Operations Center	U.S.	United States
ROD	Record of Decision	U.S.C.	United States Code
RPV	Remotely Piloted Vehicle	UAV	Unmanned Aerial Vehicle
RSL	Range Safety Locker	UNDS	Uniform National Discharge Standards
RSO	Range Safety Officer	USEPA	U.S. Environmental Protection Agency
RWQCB	Regional Water Quality Control Board	USMC	United States Marine Corps
S-A	Surface-to-Air	USW	Undersea Warfare
SAM	surface-to-air missile	USWREF	Undersea Warfare Readiness Evaluation Facility
SARA	Superfund Amendment and Reauthorization Act	USWTR	Undersea Water Training Range
SAT	Sensory Accuracy Test	UTM	Universal Transverse Mercator
SBBG	Santa Barbara Botanic Garden	UUV	Unmanned Underwater Vehicle
SBU's	Special Boat Units	UXO	Unexploded Ordinance
SCAB	South Coast Air Basin	VBSS	Visit Board Search and Seizure
SCB	Southern California Bight	VDS	Variable Depth Sonar
SCI	San Clemente Island	VERTREP	Vertical Replenishment
SCIC	San Clemente Island Range Complex	VFR	Visual Flight Rules
SCIUR	San Clemente Island Underwater Range	V/STOL	Vertical/Short Take-Off and Landing
SCORE	Southern California Offshore Range	VTS	Vessel Traffic Service
SCS	Soil Conservation Service	W-291	Warning Area 291
SCUBA	Self-Contained Underwater Breathing Apparatus	WGS	World Geodetic System
SDAB	San Diego Air Basin	WSAT	Weapon System Accuracy Trials
SDWA	Safe Drinking Water Act	WSCOA	Western San Clemente Island Operating Area
SEAL	Sea, Air, Land	yd.	yard
SEL	Sound Exposure Level		

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