
Acronyms and Abbreviations

ACRONYMS AND ABBREVIATIONS

| | |
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| A-A MISSILEX | Air-to-Air Missile Exercise |
| A-S GUNEX | Air-to-Surface Gunnery Exercise |
| A-S MISSILEX | Air-to-Surface Missile Exercise |
| AAF | Army Airfield |
| AAQS | Ambient Air Quality Standards |
| AAV | Amphibious Assault Vehicle |
| AAW | Anti-air Warfare |
| ABL | Airborne Laser |
| ACAM | Air Conformity Applicability Model |
| ACM | Air Combat Maneuver |
| ACTH | Adrenocorticotrophic Hormone |
| ADAR | Air Deployable Active Receiver |
| AFB | Air Force Base |
| AFS | Air Force Station |
| AGL | Above Ground Level |
| AICUZ | Air Installation Compatible Use Zone |
| AIROPS | Aircraft Operations |
| AIS | Automatic Identification System |
| ALMDS | Airborne Laser Mine Detection System |
| ALTRV | Altitude Reservation |
| AMNS | Airborne Mine Neutralization System |
| AMPHIBEX | Amphibious Exercise |
| AMW | Anti-Missile Warfare |
| ANSI | American National Standards Institute |
| AP | Ammonium Perchlorate |
| API | Agricultural Preservation Initiative |
| APZ | Accident Potential Zone |
| ARDEL | Advanced Radar Detection Laboratory |
| ARP | Antenna Radiation Patterns |
| ARTCC | Air Route Traffic Control Center |
| ASDS | Advanced Sea, Air, and Land Delivery System |
| ASFA | Aquatic Sciences and Fisheries Abstract |
| ASRM | Advanced Solid Rocket Motor |
| AST | Aboveground Storage Tank |
| ASUW | Anti-Surface Warfare |
| ASW | Antisubmarine Warfare |
| ATCAA | Air Traffic Control Assigned Airspace |
| ATF | Acoustic Test Facility |
| ATOC | Acoustic Thermometry of Ocean Climate |
| AWOIS | Automated Wreck and Obstruction Information System |

Acronyms and Abbreviations

| | |
|---------------|--|
| BARSTUR | Barking Sands Tactical Underwater Range |
| BMD | Ballistic Missile Defense |
| BOMBEX | Bombing Exercise |
| BRAC | Base Realignment and Closure |
| BSURE | Barking Sands Underwater Range Extension |
| BWS | Board of Water Supply |
| C2 | Command and Control |
| C3 | Command, Control, and Communications |
| CAA | Clean Air Act |
| CAS | Close Air Support |
| CASEX | Close Air Support Exercise |
| CATM | Captive Air Training Missile |
| CCD | Coastal Consistency Determination |
| CEC | Cooperative Engagement Capability |
| CEQ | Council on Environmental Quality |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFFC | Commander, Fleet Forces Command |
| CFR | Code of Federal Regulations |
| CHAFFEX | Chaff Exercise |
| CHCRT | Currently Harvested Coral Reef Taxa |
| CHESS | Chase Encirclement Stress Studies |
| CHRIMP | Consolidated Hazardous Material Reutilization and Inventory Management Program |
| CMUS | Crustacean Management Unit Species |
| CNEL | Community Noise Equivalent Level |
| CNO | Chief of Naval Operations |
| COMNAVSURFPAC | Commander, Naval Surface Force, U.S. Pacific Fleet |
| COMPTUEX | Composite Training Unit Exercise |
| COSIP | Coherent Signal Processing |
| CRRC | Combat Rubber Raiding Craft |
| CSG | Carrier Strike Group |
| CSSQT | Combat System Ship Qualification Trial |
| CV | Coefficient of Variation |
| CWA | Clean Water Act |
| CWB | Clean Water Branch |
| CZMA | Coastal Zone Management Act |
| dB | Decibel |
| dBA | A-Weighted Decibels |
| DBDBV | Digital Bathymetry Data Base Variable Resolution |
| dBp | Decibels (Peak) |
| DDC | Defense Distribution Center |
| DDT | Dichlorodiphenyltrichloroethane |
| DEIS | Draft Environmental Impact Statement |

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|---------|--|
| DEMO | Demolition |
| DHHL | Department of Hawaiian Homelands |
| DICASS | Directional Command-Activated Sonobuoy System |
| DLNR | Department of Land and Natural Resources |
| DMR | Dillingham Military Reservation |
| DoD | Department of Defense |
| DOE | Department of Energy |
| DOT | Department of Transportation |
| DRMO | Defense Reutilization and Marketing Office |
| EA | Environmental Assessment |
| EC | Electronic Combat |
| ECM | Electronic Countermeasures |
| EER | Extended Echo Ranging |
| EEZ | Exclusive Economic Zone |
| EFD | Energy Flux Density |
| EFH | Essential Fish Habitat |
| EFV | Expeditionary Fighting Vehicle |
| EIS | Environmental Impact Statement |
| EL | Energy Level |
| EM | Electromagnetic |
| EMESS | Electro-magnetic Environmental System Simulator |
| EMI | Electromagnetic Interference |
| EMR | Electromagnetic Radiation |
| ENSO | El Niño Southern Oscillation |
| EO | Executive Order |
| EOD | Explosive Ordnance Disposal |
| EODMU | Explosive Ordnance Disposal Mobile Unit |
| EPCRA | Emergency Planning and Community Right-to-Know Act |
| ERGM | Extended Range Guided Munition |
| ESA | Endangered Species Act |
| ESG | Expeditionary Strike Group |
| ESM | Electronic Warfare Support Measures |
| ESQD | Explosive Safety Quantity Distance |
| ET | Electronically Timed |
| EW | Electronic Warfare |
| °F | Degree Fahrenheit |
| FAA | Federal Aviation Administration |
| FACSFAC | Fleet Area Control and Surveillance Facility |
| FAR | Federal Acquisition Regulation |
| FAST | Floating At Sea Target |
| FCLP | Field Carrier Landing Practice |
| FEIS | Final Environmental Impact Statement |
| FIR | Flight Information Region |

Acronyms and Abbreviations

| | |
|-----------------|--|
| FIREX | Fire Support Exercise |
| FL | Flight Level |
| FLAREX | Flare Exercise |
| FM | Frequency Modulation |
| FMP | Fisheries Management Plan |
| FOIA | Freedom of Information Act |
| FORACS | Fleet Operational Readiness |
| F RTP | Fleet Readiness Training Plan |
| FSEL | Flat Sound Equivalent Level |
| ft | Foot (Feet) |
| ft ² | Square Foot (Square Feet) |
| ft-lb | Foot-pound Force |
| FTEC | Fleet Technical Evaluation Center |
| FTF | Flexible Family Target |
| FY | Fiscal Year |
| gal | Gallon |
| GDEM | Generalized Dynamic Environmental Model |
| GEM | Graphite Epoxy Motor |
| GHA | Ground Hazard Area |
| GPD | Gallons Per Day |
| GUNEX | Gunnery Exercise |
| HA/DR | Humanitarian Assistance/Disaster Relief |
| HAFB | Hickam Air Force Base |
| HAO/NEO | Humanitarian Assistance Operation/Non-Combatant Evacuation Operation |
| HAPC | Habitat Areas of Particular Concern |
| HAR | Hawaii Administrative Regulations |
| HARM | High-Speed Anti-Radiation Missile |
| HATS | Hawaii Area Tracking System |
| HCF | Hawaii Community Foundation |
| HDAR | Hawaii Department of Aquatic Resources |
| HDLNR | Hawaii Department of Land and Natural Resources |
| HE-ET | High Explosive Electronically Timed Projectile |
| HERF | Hazard of Electromagnetic Radiation to Fuel |
| HERO | Hazard of Electromagnetic Radiation to Ordnance |
| HERP | Hazard of Electromagnetic Radiation to Personnel |
| HF | High Frequency |
| HFBL | High Frequency Bottom Loss |
| HIANG | Hawaii Air National Guard |
| HIHWNMS | Hawaiian Islands Humpback Whale National Marine Sanctuary |
| HMR | Helemano Military Reservation |
| HRC | Hawaii Range Complex |
| HRS | Hawaii Revised Statutes |
| Hz | Hertz |

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|------------------------|--|
| ICAO | International Civil Aviation Authority |
| ICRMP | Integrated Cultural Resource Management Plan |
| IEER | Improved Extended Echo Ranging |
| IFF | Identification Friend or Foe |
| IFR | Instrument Flight Rules |
| IHA | Incidental Harassment Authorization |
| INRMP | Integrated Natural Resources Management Plan |
| IR | Infrared |
| IRFNA | Inhibited Red Fuming Nitric Acid |
| IRP | Installation Restoration Program |
| ISTT | Improved Surface Towed Targets |
| ITAM | Integrated Training Area Management |
| IUCN | International Union for Conservation of Nature and Natural Resources (World Conservation Union) |
| IWC | International Whaling Commission |
| JNTC | Joint National Training Capability |
| JTF WARNET | Joint Task Force Wide Area Relay Network |
| JTFEX | Joint Task Force Exercise |
| KE-ET | Kinetic Energy Projectile |
| kHz | Kilohertz |
| km | kilometer |
| KIUC | Kauai Island Utility Cooperative |
| KTA | Kahuku Training Area |
| KTF | Kauai Test Facility |
| kV | Kilovolt |
| KW | Kilowatt |
| LASH | Littoral Airborne Sensor Hyper-spectral |
| LATR | Large Area Tracking Range |
| lb | Pound(s) |
| LCAC | Landing Craft, Air Cushioned |
| LCU | Landing Craft, Utility |
| L_{dn} | Day-Night Average Sound Level |
| L_{eq} | Energy Equivalent Sound Level |
| $L_{eq} 1 \text{ sec}$ | 1-Second Averaged Equivalent Sound Level |
| LFA | Low-Frequency Active |
| LFBL | Low-Frequency Bottom Loss |
| LFX | Live Fire Exercise |
| LMRS | Long-term Mine Reconnaissance System |
| L_{max} | Maximum Sound Level |
| LOA | Letter of Authorization |
| LOS | Level of Service |
| LSRB | Laser Safety Review Board |
| LTO | Landing and Takeoff |

Acronyms and Abbreviations

| | |
|---------------------|--|
| LWAD | Littoral Warfare Advanced Development |
| m | Meter |
| m/sec | Meter per Second |
| MATSS | Mobile Aerial Target Support System |
| MBTA | Migratory Bird Treaty Act |
| MCBH | Marine Corps Base Hawaii |
| MCM | Mine Countermeasures |
| MCTAB | Marine Corps Training Area–Bellows |
| MDA | Missile Defense Agency |
| MDSU-1 | Mobile Diving and Salvage Unit One |
| MFSO | Missile Flight Safety Officer |
| MGD | Million Gallons Per Day |
| mg/kg | Milligrams Per Kilogram |
| mg/m ² | Milligrams Per Square Meter |
| mg/m ³ | Milligrams Per Cubic Meter |
| µg/m ³ | Micrograms Per Cubic Meter |
| MHz | Megahertz |
| mi | Mile |
| mi ² | Square Mile |
| MIDPAC | Mid-Pacific |
| MINEX | Mine Exercise |
| MISSILEX | Missile Exercise |
| MIW | Mine Warfare |
| MMHSRP | Marine Mammal Health and Stranding Response Program |
| MMPA | Marine Mammal Protection Act |
| MMR | Makua Military Reservation |
| MMR | Military Munitions Rule |
| µPa | Micropascal |
| µPa-m | Micropascal-Meter |
| µPa ² -s | Micropascal Squared-Second |
| msec | Microsecond |
| MSFCMA | Magnuson-Stevens Fishery Conservation and Management Act |
| MSL | Mean Sea Level |
| MW | Megawatt |
| N/A | Not Applicable |
| NAAQS | National Ambient Air Quality Standards |
| NAGPRA | Native American Graves Protection and Repatriation Act |
| NASA | National Aeronautics and Space Administration |
| NATO | North Atlantic Treaty Organization |
| NAVEDTRA | Naval Educational Training |
| NAVMAG | Naval Magazine |
| NAVSEA | Naval Sea Systems Command |

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|-----------------|---|
| NAVSEAOP | Naval Sea Systems Command Publication |
| NCA | National Command Authority |
| NDAA | National Defense Authorization Act of 2004 |
| NEO | Noncombatant Evacuation Operation |
| NEPA | National Environmental Policy Act |
| NEW | Net Explosive Weight |
| nm | Nautical Mile |
| nm ² | Square Nautical Miles |
| NMFS | National Marine Fisheries Service |
| NOAA | National Oceanic and Atmospheric Administration |
| NOI | Notice of Intent |
| NOTAM | Notice to Airmen |
| NOTMAR | Notice to Mariners |
| NPAL | North Pacific Acoustic Laboratory |
| NRHP | National Register of Historic Places |
| NSFS | Naval Surface Fire Support |
| NSW | Naval Special Warfare |
| NTA | Navy Tactical Task |
| NUWC | Naval Undersea Warfare Center |
| OAMCM | Organic Airborne Mine Countermeasures |
| OASIS | Organic Airborne and Surface Influence Sweep |
| OC | Oceanic Control |
| OEIS | Overseas Environmental Impact Statement |
| OMCM | Organic Mine Countermeasures |
| ONR | Office of Naval Research |
| OPA | Oil Pollution Act |
| OPAREA | Operating Area |
| OPNAVINST | Office of the Chief of Naval Operations Instruction |
| ORMP | Ocean Resources Management Plan |
| OSHA | Occupational Safety and Health Administration |
| OTTO | Torpedo Fuel |
| oz/lb | Ounces Per Pound |
| PCB | Polychlorinated Biphenyl |
| pH | Hydrogen Ion Concentration (a measure of acidity/alkalinity) |
| PHCRT | Potentially Harvested Coral Reef Taxa |
| PL | Public Law |
| PM-2.5 | Particulate Matter with an Aerodynamic Diameter Less Than or Equal to 2.5 Microns |
| PM-10 | Particulate Matter with an Aerodynamic Diameter Less Than or Equal to 10 Microns |
| PMRF | Pacific Missile Range Facility |
| PMRFINST | Pacific Missile Range Facility Instruction |

Acronyms and Abbreviations

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|--------------|--|
| POL | Petroleum, Oil, and Lubricants |
| POW/MIA | Prisoner of War/Missing in Action |
| ppb | Parts Per Billion |
| ppm | Parts Per Million |
| psi | Pounds Per Square Inch |
| psi-ms | Pounds Per Square Inch-Millisecond |
| PTA | Pohakuloa Training Area |
| PUTR | Portable Undersea Tracking Range |
| Q/L | Quick Look |
| RAMICS | Rapid Airborne Mine Clearance System |
| RCC | Range Commanders Council |
| RCMP | Range Complex Management Plan |
| RCRA | Resource Conservation and Recovery Act |
| RDF | Radio Direction Finding |
| RDT&E | Research, Development, Test, and Evaluation |
| RDX | Royal Demolition Explosive |
| RF | Radio Frequency |
| RHIB | Rigid Hull, Inflatable Boat |
| RIMPAC | Rim of the Pacific |
| RMS | Remote Minehunting System |
| RMS | Root Mean Square |
| ROD | Record of Decision |
| RSOP | Range Safety Operation Plan |
| RSS | Range Safety System |
| S-A GUNEX | Surface-to-Air Gunnery Exercise |
| S-S GUNEX | Surface-to-Surface Gunnery Exercise |
| S-A MISSILEX | Surface-to-Air Missile Exercise |
| S-S MISSILEX | Surface-to-Surface Missile Exercise |
| SARA | Superfund Amendments and Reauthorization Act |
| SAT/UNSAT | Satisfactory/Unsatisfactory |
| SBMH | Schofield Barracks Military Reservation |
| SD | Standard Deviation |
| SDV | Sea, Air and Land Delivery Vehicle |
| SEAL | United States Navy Sea, Air and Land |
| SEL | Sound Equivalent Level |
| sec | Second |
| SEPTAR | Seaborne Target |
| SESEF | Shipboard Electronic Systems Evaluation Facility |
| SHPO | State Historic Preservation Office |
| SICO | System Integration Checkout |
| SINKEX | Sink Exercise |
| SM | Standard Missile |

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|------------|---|
| SMA | Sonar Modeling Area |
| SOA | Submarine Operating Area |
| SOP | Standard Operating Procedures |
| SPAWAR | Space and Naval Warfare |
| SPECWAROPS | Special Warfare Operations |
| SPL | Sound Pressure Level |
| SSC | SPAWAR Systems Center |
| SSTA | Submarine Sonar Training Area |
| STS | Strategic Target System |
| SUA | Special Use Airspace |
| SURFSAT | Surface Weapons System Accuracy Test |
| SURTASS | Surveillance Towed Array Sensor System |
| SVP | Sound Velocity Profile |
| SWSA | Submarine Warfare System Assessment |
| SWTR | Shallow Water Training Range |
| TA | Training Area |
| TACAN | Tactical Air Navigation |
| TAP | Tactical Training Theater Assessment and Planning |
| TBP | Tributyl Phosphate |
| T&E | Test and Evaluation, Threatened and Endangered |
| T/G | Touch-and-Go Landing |
| THAAD | Terminal High Altitude Area Defense |
| TL | Transmission Loss |
| TM | Tympanic Membrane |
| TMDL | Total Maximum Daily Load |
| TNT | Trinitrotoluene |
| TOA | Temporary Operating Area |
| TORPEX | Torpedo Exercise |
| TPY | Tons Per Year |
| TRACKEX | Tracking Exercise |
| TTS | Temporary Threshold Shift |
| UAV | Unmanned Aerial Vehicle |
| UESA | Ultra High Frequency Electronically Scanned Array |
| UHF/VHF | Ultra High Frequency/Very High Frequency |
| UME | Unusual Mortality Event |
| UNDS | Uniform National Discharge Standard |
| U.S. | United States |
| USACE | United States Army Corps of Engineers |
| USAKA | United States Army Kwajalein Atoll |
| U.S.C. | United States Code |
| USEPA | United States Environmental Protection Agency |
| USFWS | United States Fish and Wildlife Service |

Acronyms and Abbreviations

| | |
|------------|---|
| USSPACECOM | United States Space Command |
| UST | Underground Storage Tank |
| USV | Unmanned Surface Vehicle |
| USWEX | Undersea Warfare Exercise |
| UXO | Unexploded Ordnance |
| USWREF | Undersea Warfare Readiness Evaluation Facility |
| USWTR | Undersea Warfare Training Range |
| VBSS | Visit, Board, Search, and Seizure |
| VERTREP | Vertical Replacement |
| VFR | Visual Flight Rules |
| VHF | Very High Frequency |
| VMT | Vehicle Miles Traveled |
| VOC | Volatile Organic Compound |
| VTOL | Vertical Takeoff and Landing |
| W | Warning Area |
| WAAF | Wheeler Army Airfield |
| WIT | Waterfront Integration Test |
| WNTC | Wheeler Network Communications Control |
| WPRFMC | Western Pacific Regional Fishery Management Council |
| WWTP | Waste Water Treatment Plant |
| ZOI | Zone of Influence |