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# Antisubmarine Warfare (ASW) Lexicon

C. H. Gates

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### **ADMINISTRATIVE INFORMATION**

This document was prepared with considerable and ongoing input from the antisubmarine (ASW) community to foster clear and consistent communications in ASW by Code 604, the Associate for ASW Architecture and Engineering, Naval Ocean Systems Center (NOSC), for the Space and Naval Warfare Systems Command.

The document is offered to the ASW community for their unrestricted application. Suggested additions, deletions, or other comments may be forwarded to NOSC Code 604, attention Cathy Gates.

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## ANTISUBMARINE WARFARE (ASW) DEFINITIONS

**Acoustic Signature.** The noise output characteristic of, and identification with, a specific noise source, e.g., the noise output of a particular class submarine.

**Afternoon Effect.** The daytime heating of the surface water which results in a reduction of sonar ranges usually in the afternoon.

**Air Coordinator.** An officer appointed by the Officer in Tactical Command (OTC) to perform air coordination duties specified by the OTC. The Air Coordinator (AC) is normally assigned to the Anti-air Warfare Commander (AAWC) and may be the Antisubmarine Warfare Commander (ASWC).

**Aircraft Control Unit.** A unit with facilities and controllers for conducting aircraft control, and which exercises tactical control of aircraft or a unit.

**Aircraft Operating Authority.** The command exercising operational control of aircraft.

**Air Watch Officer.** An officer assigned to watchstanding duties on the staff of the Antisubmarine Warfare Commander (ASWC), and is responsible to the ASW Air Advisor for the employment of ASW aircraft.

**Ambient Noise.** The naturally occurring noise in the sea and the noise resulting from man's activity, excluding self-noise and reverberation.

**Antisubmarine Warfare Commander.** The officer delegated some or all of the OTC's (Officer in Tactical Command) detailed responsibilities for antisubmarine warfare; has the tactical control authority to accomplish the associated missions and tasks to carry out those responsibilities.

**Architecture Development.** Explore and develop theory and methodology to optimize warfare system architectures.

**Architecture Methodology and Theory.** Development of Measures of Performance (MOP), Measures of Effectiveness (MOE), and an algorithm and models for computer-assisted design and assessment of architectures.

**Associated Support.** An option in Nuclear Attack Submarine (SSN) Direct Support (DS) operations wherein the SUBOPAUTH retains tactical control of SSN(DS) units and coordinates the assignments and movements of submarines in response to the support requirements of the Officer in Tactical Command (OTC).

**Astern Sector.** In screening operations, the sector from 120 degrees clockwise to 240 degrees relative to the projected force track.

**ASW Air Advisor.** An officer assigned to the staff of an Antisubmarine Warfare Commander (ASWC). He is responsible for supervising the performance of assigned Air Watch Officers and subordinate watchstanders.

**ASW Architecture (Warfare System Architecture).** A framework of organizational structures and relationships that use resources to perform functions to achieve an objective or goal.

- a. Organization: Subdivision, unit, individual
- b. Resource: Physical systems, computers, people
- c. Function: Process, procedure, algorithm

**Background Noise.** All unwanted sounds, other than reverberation, received by a hydrophone, including ambient and self-noise.

**Baseline/Class One Architectures.** Architectures dictated by systems presently planned or in development.

**Best Depth Range.** That predicted range an active sonar can expect against a submarine at 200 ft below the layer or at 1000-ft depth or at 5 ft above the bottom, whichever is the most shallow, in a given water column.

**Bottom Bounce.** A form of sound transmission in which sound rays strike the bottom and are reflected back toward the surface.

**Cartesian Coordinate Grid.** The grid used for rapid reporting of position in a form compatible with manual and Naval Tactical Data systems.

**Cavitation.** The formation of local cavities (bubbles) in a liquid as a result of the reduction of local pressure. This pressure reduction may result from a negative pressure produced by rarefaction, or from the reduction of pressure by hydrodynamic flow such as is produced by high-speed movement of an underwater propeller.

**C3 Architecture.** A blueprint or blueprints relating doctrine, procedures, processes, organizational structure, personnel, equipment, facilities, and communications that could provide authorities at all levels with timely and adequate data to plan actions, assess mission effectiveness, position and prepare own forces, acquire tactical information, evaluate situation, direct actions, and execute weapons actions.

**C3 System.** A subset of a C3 architecture that has directly measurable input/output attributes.

**Cavitation Speed.** The speed for an individual ship at which propeller blade cavitation is the predominant factor in the ship's acoustic signature.

**Choke Point.** An area of navigable water where the selection of alternate routes is restricted by land mass or unnavigable water.

**Clear Circuit.** Unencrypted radio communications circuit.

**Close Support Area.** Area surface to unlimited as established by the Officer in Tactical Command (OTC).

**Cold.** Antisubmarine Warfare contact is not held; submerged contact known or assumed to be enemy (GOBLIN) is not held.

**Communications Relay Aircraft.** An aircraft tasked to relay communications from one unit to another, normally VHF/UHF voice relay.

**Communications Security.** Cryptosecurity, transmission security, emission security, and physical security of communications security materials and information.

**Computer System Application Function.** A systematic arrangement and execution of computer system organic functions to accomplish a system function.

**Computer System Organic Function.** The basic operations performed by computer systems regardless of the application in which the computer system is employed.

**Contact Prosecution.** The act of localizing submarines, then attacking and/or maintaining contact after achieving attack criteria.

**Convergence Zone.** That region in the deep ocean where sound rays, refracted from the depths, focus at the surface in successive intervals of 35 miles or less.

**Correlation.** The process of determining if two or more contact reports are associated with the same object.

**Counterdetection.** The act of detection by others of one's activity or operation (e.g., detection by enemy submarines of own-force active sonar).

**Cross-fix.** The act of determining the position of objects (usually ships) by lines of bearing from different locations at about the same time.

**Datum.** The last known position of a submarine, or suspected submarine, after contact has been lost.

**Datum Error.** An estimate of the degree of accuracy in the reported position of datum.

**Datum Time.** Time when contact with the submarine, or suspected submarine, was lost.

**Decibel (dB).** A value that expresses the comparison of two sounds of different intensities. This value is defined as 10 times the common logarithm of the ratio of the two sound intensities.

**Defensive Perimeter.** In screening operations, the perimeter encompassing the main body wherein the expected threat for which the screen was designed is not permitted to penetrate without being detected and opposed.

**Deliberate Attack.** An attack delivered with maximum accuracy against an enemy submarine when the tactical situation allows time to obtain accurate track data.

**Delousing.** Searching in the vicinity of the task force main body to detect any potentially hostile submarines.

**DIFAR.** The technique that employs passive directional sonobuoys to provide target detection, classification, and bearing.

**Dogbox.** Area within which units may interfere with, or be endangered by, own ASW torpedoes. Defined as a circle of radius 2000 yards with 6-minute duration.

**DOWNLINK.** Communications directed to a submerged (below periscope depth) submarine from surface or air units.

**EARDRUM.** Call sign for aircraft assigned to relay SSN in area support communications to OTC/ASWC.

**Echo Level.** In active sonar, the level or strength of a returning echo over a given range expressed in decibels referenced to 1 micropascal (dB/1  $\mu$ Pa).

**Emission Control.** The management of all electromagnetic and electroacoustic emissions of a force or unit.

**Estimated Position.** The refinement of datum to reflect additional information concerning the likely position of a submarine, or suspected submarine, but insufficient to define the exact current position or a new datum.

**Figure of Merit.** The maximum propagation loss in dB that a target signal can undergo and still be detected 50 percent of the time by the Sonar Operator.

**Flaming Datum.** A datum established by a submarine's attack on a ship vice contact on the submarine with the datum position being the ship's position at the time of attack; datum error being the estimated firing range of the submarine's weapon, and the datum time being the time of the attack.

**Flank.** In screening operations, the sectors from 240 to 300 degrees and 60 to 120 degrees clockwise relative to the projected force track.

**Functional Superset.** A set of functions with the following characteristics: unambiguously defined; nonredundant and mutually exclusive; groupable into subsets which satisfy the requirements of a particular commander or set of commanders associated with a command level or platform; when aggregated, they span the total functionality required to meet the warfare requirements.

**Farthest-on-Circle.** An expanding circle centered on a datum or search center of which the radius at any one time is a command estimate of maximum submarine travel from datum plus datum error.

**Fusion (data fusion).** The combining of dissimilar information into a new complex product.

**Future/Class Three Architectures.** Systems that could be deployed, with some technical risk, in the future.

**GOBLIN.** Submerged contact assumed to be enemy submarine.

**Gradient.** The rate of change of an environmental variable over a given distance. In the sea, for example, a temperature gradient is the change of temperature with depth. The temperature gradient is positive if temperature increases with depth.

**Grid Guard.** That unit to whom the OTC has delegated responsibility for the accuracy and security of the current grid in force.

**GUERRILLA.** A priority collective sign indicating an SSN(DS) has high-precedence traffic to communicate to the OTC/ASWC. Any unit receiving this call is to reply, authenticate if necessary, and relay. This call sign is used to break into a circuit being used for other high-precedence traffic.

**HOT.** Contact on GOBLIN; GOBLIN is held.

**Identification Safety Range.** A range established to ensure that an aircraft does not enter the gun or missile engagement zone of a surface force until it is recognized as friendly.

**Inner Screen.** A screen in the immediate vicinity of the main body, generally within UHF range of the main body.

**Integrated Acoustic Communications System.** Provides a capability for realtime, low-data rate, acoustically overt, tactical communications between appropriately equipped submarines, surface ships, and aircraft (via a buoy) at ranges to 40 miles.

**Integrated Analysis Technique/Structured Analysis Tool.** Computer-assisted system

engineering tools for architectural design and evaluation.

**Integrated ASW Plan.** A statement of ASW policy, intended employment of ASW assets, and contact response instructions. It is published by the OTC in the operation order and based on the recommendation of the ASWC.

**Integrated Support.** An option in SSN Direct Support (DS) operations wherein the OTC has tactical command of assigned SSN(DS). The OTC is assigned an area cleared of other friendly submarines by the SUBOPAUTH. Within this cleared area (Integrated Support Area), the OTC positions the SSNs and is responsible for preventing mutual interference among the assigned SSN(DS) as well as providing for their safety from attack by friendly forces. These responsibilities are delegated to an ASWC when assigned.

**Integrated Support Area.** A geographic submarine operating area allocated to the OTC by the SUBOPAUTH wherein the OTC operates as signed SSN(DS).

**Joint Force Integration.** Integrate architectural methodology with current and proposed architectural efforts of other services.

**Killing Ground.** That area between the inner screen and Submarine Patrol Areas in the outer screen where antisubmarine attacks are planned.

**King Pin.** A reference position established arbitrarily by an aircraft for reporting the position of contacts or datum.

**Limiting Lines of Approach (LLA).** Mathematically calculated limits, relative to the force within which an attacking submarine must be to reach the Torpedo Danger Zone.

**Limiting Lines of Quiet Approach.** LLA for a nuclear submarine at quiet speeds.

**Limiting Lines of Submerged Approach.** LLA for submerged diesel-electric submarine at quiet speed (10 knots).

**Linebacker.** A surface ASW ship assigned a communication circuit for ease of reference and clarity.

**Localization.** The determination of a contact's position by reducing the general area of contact to a more definite and smaller area.

**LOFAR.** The technique that employs passive nondirectional sonobuoys to provide target detection and classification.

**Main Body.** A group of warships and naval auxiliaries, or a single ship escorted by warships and/or aircraft, and not designated a convoy.

**MAD (magnetic anomaly detector).** An active device that detects the presence of a magnetic material by the distortions such material produces in the natural magnetic field of the depth.

**Maritime Patrol Aircraft.** All current types of maritime land-based planes, excluding those unarmed multiengine aircraft used for utility and transport service, that have the capability to operate over the sea environment.

**Marking.** The act of maintaining a continuous readiness to deliver weapons against a specific target without further localization or weapon preparation.

**Maximum Effective Torpedo Firing Range.** The maximum distance at which a torpedo may be fired with a reasonable probability of achieving the desired result (assessed as 10,000 yards).

**Measure of Effectiveness.** Measurable attributes of system performance within an operational environment, e.g., probability of detection of enemy submarines.

**Measure of Force Effectiveness.** Measurable attributes of mission performance, e.g., number of hostile forces eliminated.

**Measure of Performance.** Measurable attributes (numerical) of system performance, e.g., mean time to failure.

**Median Detection Range.** A term used within the air ASW community to describe that continuous range at which there is a 50-percent probability of detection on any one sonobuoy of the signal source for which the computation is made.

**Mobile Exercise Area.** A moving area of specified dimensions established around a submarine, or surface ship, extending about the estimated position along the track, and designated only in peacetime for use in transit by a submarine to prevent or minimize interference by friendly forces.

**NESTOR.** A UHF voice communications encryption system.

**Noise Limited.** That situation in which the maximum range of detection is limited by that part of background noise and own-ship noise detected by the sonar.

**NOTACK Area.** A special weapon-tight haven within an SSN Patrol Area. An established "no attack" area inside the SSN Patrol Area.

**Operational Control.** The authority delegated to a commander to direct forces assigned so the commander may accomplish specific missions or tasks usually limited by function, time, or location; to deploy units concerned; and to retain or assign tactical control of those units. It does not include the authority to assign separate employment of components of the units concerned, nor does it include administrative or logistic control.

**OPGEN ALFA.** A message format for distribution of general information by the OTC to all units and appropriate shore authorities.

**OPGEN FOXTROT.** A message format for helicopter tasking by the Air Coordinator to the warfare commanders, Screen Commander, carriers, helicopter-equipped ships, and screen ships.



**OPGEN GOLF.** A message format for issuing ASW policy by the ASWC to all ships and air squadrons in a Battle Group.

**OPGEN HOTEL.** A message format for ships with helicopters embarked or with air control capability to state their availability to the OTC and AC.

**OPGEN SIERRA.** A message format for the OTC/ASWC to distribute essential information to SSN(DS).

**OPGEN TANGO.** A message format for exchange of ASW scene of action information.

**Optimum Sonar Speed.** The speed for an individual surface ship at which, over a period, it can achieve the maximum sweep area with its sonar in the prevailing environmental conditions.

**ORESTES.** An HF radio teletype communications encryption system.

**Outer Screen.** A screen removed from the main body, generally beyond UHF range of the main body, and forms the outer defensive perimeter.

**Periscope Depth Range.** That predicted range an active sonar can expect against a submarine at 60-ft keel depth in a given water column.

**Plan Black.** The intended employment of units immediately after contact is lost.

**Plan Red.** The intended employment of units as soon as contact is gained.

**Position and Intended Movement.** A reference position established by the OTC at a given time and a forecast of the course(s) and speed(s) expected to be made good over the ground.

**Possible Submarine.** A contact for which there is some information available that indicates the likely presence of a submarine, but

insufficient evidence to justify a higher classification.

**POUNCER.** A ship or helicopter tasked to localize and/or attack submarines once contact is gained.

**Predicted Sonar Range (PSR).** The range estimated by consideration of factors that influence the propagation of sound, such that target returns will be identified by an average, unalerted sonar operator 50 percent of the time. For passive search, the definition implies the range at which the maximum allowable propagation loss the target signal can suffer and still be detected by the operator 50 percent of the time. At all lesser ranges, the target will be detected at least 50 percent of the time. Convergence zone and bottom bounce detection ranges are included within PSR only if detection capability is continuous at lesser ranges.

**Probable Submarine.** A contact that displays strong cumulative evidence of being a submarine.

**Procedure ALFA.** A procedure whereby a detaching Surface Attack Unit (SAU) retains and employs an ASW circuit for its exclusive use for the investigation/prosecution of its contact, and the SAU and the screen ships are not required to shift frequencies to SCREEN TACTICAL.

**Procedure BRAVO.** An optional procedure whereby a detaching Surface Attack Unit (SAU) retains and employs SCREEN TACTICAL for its exclusive use for the investigation/prosecution of its contact, and the remaining screen ships will be ordered to shift to SCREEN TACTICAL ALFA UHF.

**Prudent Limit of Endurance.** The time an aircraft can remain airborne and still retain a given safety margin of fuel.

**Radar Flooding.** A continuous all-around use of radar.

**Restricted Water.** Navigable waters where operations are significantly affected by water

depth, the proximity of land, or unnavigable water.

**Reverberation.** The combined sound of many small echoes returned to the hydrophone by surface, bottom, and volume scattering.

**Reverberation Limited.** A description of the condition in active sonar when the reverberation interference level is higher than the background noise level.

**Road.** Axis of a sonobuoy pattern.

**Scene of Action Commander.** The officer who temporarily assumes tactical command in a limited area as a result of contact with the enemy.

**Search Attack Unit.** The designation given to a unit separately organized or dispatched from a formation to search for and attack submarines.

**Secure Circuit.** An encrypted communications circuit.

**SEC Watch Officer.** An officer assigned to watchstanding duties on the staff of the ASWC and responsible to the Submarine Element Coordinator (SEC) for the employment of SSN(DS).

**Self-Noise Limited.** The condition when the component of acoustic background noise generated by the listening ship is the predominant source of background noise.

**Shadowing.** The observation of an enemy unit or force, usually as a sequel to surveillance or reconnaissance, for the purpose of reporting its composition, location, movement, and any other relevant information.

**Shadow Zone.** In the ocean, a space of reduced ensonification bounded by the limiting ray and surface layer boundary.

**Shallow Water.** Water of such depth that the proximity of the bottom has significant impact

on operations or performance. Defined to be 100 fathoms or less.

**SIMAS.** An automated computer acoustic prediction system.

**SINKER.** A radar contact that later disappeared.

**Situation ALFA.** A command relationship ordered by the common superior of a support force and another force whereby the two forces integrate and the senior officer present becomes the OTC of the combined force.

**Situation BRAVO.** A command relationship ordered by the common superior of a support force and another force whereby the support force provides direct support and the senior OTC of the two forces coordinates the tactical operations of the two forces.

**Situation CHARLIE.** A command relationship ordered by the common superior of a support force and another force whereby the support force commander has discretion how best to provide support.

**Snorkel (SNORT).** An extendable breather pipe that enables a submarine to operate on diesel engines while remaining submerged.

**Sonobuoy.** A free floating or anchored device consisting of a buoy, radio telemetering equipment, and a hydrophone. The hydrophone receives signals that are then transmitted to a receiver for analysis.

**Source Level.** Sound pressure measured 1 yard from the source and expressed in dB referenced to one micropascal (dB/1 $\mu$ Pa/yd).

**SSN Control Ship.** That ship from which tactical control of the SSN(DS) is exercised by the ASWC.

**SSN(DS) Station.** The area defined inside an SSN Patrol Area within which the SSN(DS) is expected to conduct search operations.

**SSN Patrol Area.** The assigned area established by the ASWC (Integrated Support) or SUBOPAETH (Associated Support) wherein

**SSN(DS)** is constrained to operate. Within the rules of the Patrol Area, the SSN(DS) may operate without interference from an attack by friendly forces.

**Submarine Element Coordinator.** The principle advisor, for submarine matters, to the commander exercising tactical control over SSNs in the Direct Support role.

**Submarine Intended Movement.** A reference point defining a geographic position and movement.

**Submarine Notice.** A message report originated by a Submarine Operating Authority (SUBOPAUTH) providing movement information by which submarines are routed in peace and war and including transit and patrol zone information.

**Submarine Operating Authority (SUBOPAUTH).** Title used to indicate the command exercising operational control over submarines.

**Surface Action Group.** A unit of surface ships, which may be supported by fixed-wing aircraft or helicopters, formed to counter a surface threat.

**Surveillance Area.** The air space in an AAW area in which detection, tracking, and identification of an air threat takes place.

**SWAP.** The executive order for exchange of the duty of Scene-of-Action Commander from one unit to another.

**System Engineering.** The systematic application of technology and engineering principles to optimize the performance of an architecture within specified constraints of time and money.

**System Function.** The process by which personnel, with computer systems or computer systems alone, support accomplishment of an operational function.

**Tactical Picture.** The past and present position and identification of all air, surface, and subsurface platforms in the tactical area of interest. The description of the environment in the tactical area of interest, specifically, Eland masses, bottom contours, present atmospheric and oceanographic conditions.

**Tactical Situation.** The interpretation of the tactical picture in light of the assessment of enemy posture and own-force posture. Posture includes examination and assessment of the operational capability, tactics, vulnerabilities, intentions, and operational effectiveness.

**Tactical Sonar Range.** A range based on the reported SRs and may make allowances for probable submarine depth, alertness of operators, level of unit efficiency, etc.

**Target Motion Analysis.** The examination of target bearing information to localize the target.

**Technical Review and Integration.** Provide top-level review of architectural design methodology and products; evaluate efforts for consistency with other naval force level architectures and appraisals.

**Torpedo Countermeasure.** The material and tactical measures that are adopted by ships for protection against submarine torpedoes.

**Torpedo Danger Area.** The area extending beyond the farthest-on-circle for an arbitrarily assessed distance of 8000 yards.

**Torpedo Danger Zone.** An area in which the submarine must enter to be within maximum effective torpedo firing range.

**Towed Array.** Two or more hydrophones feeding into a common receiver from a configuration pulled astern by a surfaced or submerged platform. Towed arrays are classified as tactical, in which case they have the capability of being towed at near maximum platform speeds, or classified as surveillance, in which case they are towed at slow speeds.

**Tracking.** Estimation of an object's position in space.

**Track Integration.** The merging of tracks from multiple sources into a composite track picture.

**UPLINK.** Communications directed to surface or air units from a submerged (below periscope depth) submarine.

**Urgent Attack.** An attack delivered with maximum rapidity against an enemy submarine located in a position that is considered an immediate threat.

**Van.** In screening operations, the sector from 300 to 60 degrees clockwise relative from the projected force track.

**Variable Depth Sonar.** A sonar whose transducer is towed beneath its parent ship to improve sonar detection ranges.

**Vectored Attack.** An attack in which a weapon-carrying unit not holding contact on the target is vectored to the weapon delivery point by a unit that holds contact on the target.

**Vectored Intercept.** The positioning of one or more SSN(DS) based on data gathered from other sources to intercept seaborne forces that pose a threat to the Task Group or other friendly forces.

**Vital Area.** The inner part of the destruction area, centered on the main surface units in

which the primary mission of the force depends, and within which no attackers should be allowed to penetrate without being engaged. The outer limit of the vital area is the assumed release point of enemy bombs and/or ASCM missiles.

**Warfare Mission Areas.** Anti-air Warfare (AAW), Antisubmarine Warfare (ASW), Antisurface Warfare (ASUW), Amphibious Warfare (AMW), Electronic Warfare (EW), Strike Warfare (STW), Mine Warfare, Submarine Warfare, and Unconventional.

**Warfare Mission Support Areas.** Air resources coordination, C3 countermeasures, surveillance, reconnaissance, search and rescue, intelligence, operational deception, cryptologic communications, logistics, movement, disposition/formation/task organization, joining, rules of engagement, rules to prevent mutual interference, and defense/readiness conditions.

**Warfare System.** The assemblage of personnel, hardware, and software resources of a naval activity (platform or shore site) operating in a prescribed manner to fulfill the warfare mission requirements of the activity.

**Weapon Release Point.** The point where a single weapon, on the first weapon fix of a pattern, is released so it enters the water at the splash point. For aircraft attacks, it allows for the aircraft's direction, speed, and altitude of approach and the characteristics of the weapon.

## OVER-THE-HORIZON TARGETING (OTH-T) DEFINITIONS

**Battle Damage Information.** The efficiency of providing battle damage information to the decision maker.

**Classification.** The ability of a sensor or source to correctly identify targets detected.

**Completeness.** The sufficiency of information forwarded based upon reports received.

**Consistency of Tactical Picture.** The consistency of a decision-maker's or launch platform's tactical picture as compared to the afloat correlated product.

**Data Element.** Individual and specific information elements necessary to arrive at a quantitative value for an MOE (Measures of Effectiveness).

**Detection.** The availability of a sensor or source to detect and maintain contact given a detection opportunity.

**Detection Opportunity.** Any 30-minute period of an exercise when a given sensor has had no contact with a target for 30 minutes and all of the following conditions are met:

- a. Sensor with propagation path of emission, includes horizon limits for Line-of-Sight (LOS) detections.
- b. Signal/noise ratio of signal at sensor is within engineering specifications.
- c. Other sensor engineering specifications permit reception of signal (NOTE: Sensor OFF, wrong MODE, band, direction, etc., do not apply).
- d. If passive sensor, following minimum time (duration) of signal emission is required: Shore HFDF-10 minutes, SELOR-1 minute, ELINT ESM-1 minute,

OUTBOARD-2 minutes, Acoustic-2 minutes.

- e. If OUTBOARD, source <150 NM from signal.

**Engagement Envelope.** An area described by a 50-NM radius around an intended OTH-T target.

**Exercise Area.** The geographical area designated by the Officer Conducting the Exercise as the bounds in which the exercise will be conducted.

**Geographical Accuracy.** The ability of a sensor or source to geographically locate targets and nontargets.

**Ground Truth Position.** The most accurate reconstructed position or track available as a result of an examination of all available geolocational sources.

**Information Correlation.** The results of a processing center's efforts to correlate information.

**Integrated Acoustic Communications System.** Provides a capability for realtime, low-data rate, acoustically overt, tactical communications between appropriately equipped submarines, surface ships, and aircraft (via a buoy) at ranges to 40 miles.

**Killing Ground.** That area between the inner screen and Submarine Patrol Areas in the outer screen where antisubmarine attacks are planned.

**Loading.** The volume of reports originated or received by a sensor/source, communications link, processing center, or data/tracking system.

**MOE Areas ROFs.** Areas of functions necessary for the OTH-T System to support an operational commander's use of ASUW OTH-T as an at-sea operation.

**Navigation Accuracy.** The sufficiency of self-locational information.

**Operational Availability.** The operational time an accessed system is available to support OTH-T.

**OTH-T.** The process of detection, classification, tracking, and targeting at over-the-horizon ranges.

**OTH-T Data Base.** An ORACLE OTH-T data base developed by the Naval Ocean Systems Center that accepts specified OTH-T data elements and MOEs and provides computer-assisted computation of MOEs.

**OTH-T System.** The collective whole of sensors (organic and nonorganic), processing centers (shore and afloat), communications links and interfaces, and weapons control systems that contribute to OTH-T.

**OTH-T Weapons Area.** An area described by the radius from a surface or subsurface OTH-T weapon platform of the maximum operational range of a particular OTH-T weapon plus a 50-NM buffer.

**Report Interoperability.** The ability of a node or communications link to accept OTH-T reports automatically without manual processing or creation of duplicate reports.

**Surface Classification.** The determination of a surface contact's status as a target or nontarget.

**Surface Classification Report.** A sensor or source report that contains a determination of at least target/nontarget classification

(designation, name, ship/radar type, etc.) or maintains continuity on a track previously designated a target or nontarget, including High-Interest Track (HIT) notation.

**Surface Target.** A surface platform designated by the Officer in Tactical Command as a Critical Contact of Interest or as a Contact of Interest.

**System Access.** The time a sensor, source, or communication link is made available by its control authority when tasked by the operational authority.

**Target Acquisition Quality/Source.** The sufficiency of information for target acquisition and the determination of sensor contribution to targeting engagements.

**Targeting Information Quality.** The targeting quality of arriving reports at a weapons launch/targeting platform, data/tracking system as measured by individual informational elements of reports.

**Timeliness.** The time information remains in the node or communications link until forwarding or appropriate action is taken.

**Tracking Picture Quality.** The ability of a data/tracking system to maintain a presentation of locational information on units within a designated engagement envelope within the specified radius of uncertainty.

**Valid Detection.** A sensor report of target contact that locates the position contact within a 25-NM radius of the ground-truth position and does not include conflicting (false) classification data.

## ASW ACRONYMS AND ABBREVIATIONS

### A

<b>A2</b> Acoustic Analysis; Active Adjunct; Advanced Active; Antiaircraft	<b>A/D</b> Analog-to-Digital
<b>A3</b> Antiaircraft Artillery	<b>AD</b> Air Data
<b>AABNCP</b> Advanced Airborne Command Post	<b>AD/AC</b> Automatic Detection/Automatic Classification
<b>AACA</b> Airborne ASW Coordination Aircraft	<b>ADAS</b> Air Deployable Array System
<b>AAD</b> Active Acoustic Device	<b>ADBMS</b> Acoustic Data Base Management System
<b>AAG</b> Amphibious Assault Group	<b>ADC</b> Acoustic Device Countermeasure; Acoustic Display Console
<b>AAIS</b> Airborne Acoustic Intercept System	<b>AD/CAC</b> Automatic Detection/Computer- Aided Classification
<b>AAM</b> Air-to-Air Missile	<b>ADCAP</b> Additional Capability Program (Mk 48 Torpedo)
<b>AAP</b> Analytical Assessment Plan	<b>ADD</b> Acoustic Deception Device
<b>AAS</b> Activity Accreditation Schedule	<b>ADDS</b> Applied Digital Data Systems
<b>AASMD</b> Airborne Antiship Missile Defense	<b>ADEC</b> Adaptive Detection, Estimation and Correlation
<b>AASWA</b> Advanced ASW Avionics	<b>ADF</b> Advanced Disk File
<b>AAW</b> Anti-air Warfare	<b>ADI</b> Acoustic Data Interface; Air Defense Initiative
<b>AATC</b> Airborne ASW Tactical Coordinator	<b>ADL</b> Auxiliary Display Logic
<b>AAWC</b> Anti-air Warfare Commander	<b>ADLIPS</b> Automatic Data Link Plotting System
<b>ABF</b> Adaptive Beamformer	<b>ADM</b> Advanced Development Model
<b>AC</b> Air Coordinator; Alternating Current	<b>ADP</b> Acoustic Data Processing; Automatic Data Processor/Processing
<b>A/C</b> Aircraft	<b>ADPS</b> Automatic Data Processing System
<b>ACAN</b> Acoustic Analyzer	<b>ADPSP</b> Automatic Data Processing Supervisor
<b>ACC</b> Acoustic Control Console	<b>ADT</b> Automatically Detect a Track
<b>ACCS</b> Afloat Command and Control Subsystem	<b>AE</b> Acoustic Emission; Acoustic Evaluator
<b>ACIMD</b> Advanced Concept in Missile Demonstration	<b>AEPS</b> Automated Environmental Prediction System
<b>ACINT</b> Acoustic Intelligence	<b>AERP</b> Active Emission Receiver Processor
<b>ACK</b> Acknowledged	<b>AFC</b> Automatic Frequency Control
<b>ACLS</b> Automatic Carrier Landing System	<b>AFCS</b> Antiship Missile Defense
<b>ACM</b> Acoustic Countermeasures	<b>AFD</b> Amplitude-Frequency Designators
<b>ACNO</b> Assistant Chief of Naval Operations	<b>AFS</b> Combat Stores Ship
<b>ACP</b> Automated Computer Program	<b>AG</b> Array Gain
<b>ACPA</b> Adaptive Controlled Phased Array Antenna	<b>AGC</b> Automatic Gain Control
<b>ACS</b> Air Control Supervisor; Afloat Correlation System	<b>AGI</b> Intelligence Collection Ship
<b>ACTIV</b> Activate	<b>AGL</b> Above Ground Level
<b>ACU</b> Aircraft Control Unit	<b>AGM</b> Air-to-Ground Missile
<b>AIROPAUTH</b> Aircraft Operating Authority	<b>AGOR</b> Oceanographic Research Ship
	<b>AHRS</b> Automatic Heading and Recording System
	<b>AI</b> Artificial Intelligence

<b>AIAC</b> Auto Initial/Auto Track	<b>APCOA</b> Actual Probability of Acquisition
<b>AIC</b> Airborne Information Correlation	<b>APL</b> Applied Physics Laboratory
<b>AIMC</b> Auto Initiate/Manual Confirm	<b>APP</b> Acoustic Performance Prediction
<b>AIP</b> Automatic Input Processing	<b>APS</b> Adaptive Processor Sonar
<b>AIR</b> Acoustic Intercept Receiver	<b>APSUB</b> ASW Program Subsurface
<b>AIRBAT</b> Air Battle (Model)	<b>APSURF</b> ASW Program Surface
<b>AIRTASK</b> NAVAIR Task	<b>APZ</b> Air Patrol Zone
<b>AIS</b> Acoustic Intercept System	<b>AQD</b> Additional Qualification Designation
<b>AJ</b> Antijam	<b>AREC</b> Air Element Coordinator
<b>ALG</b> Antisubmarine Rocket Launcher Group	<b>ARH</b> Antiradiation Homing (Seeker)
<b>ALI</b> Automatic Line Integration	<b>ARM</b> Antiradiation Missile
<b>ALICE</b> Adaptive Line Canceller and Enhancer	<b>ARNAV</b> Area Navigation
<b>ALP</b> Air Liaison Party	<b>ARO</b> Auxiliary Readout
<b>ALWT</b> Advanced Lightweight Torpedo	<b>ARPA</b> Advanced Research Projects Agency
<b>AM</b> Amplitude Modulation	<b>ARRCS</b> Air Raid Reporting Control Ship
<b>AMBIG</b> Ambiguity	<b>AS</b> Air to Surface
<b>AMCM</b> Airborne Mine Countermeasures	<b>ASAC</b> Antisubmarine Air Controller
<b>AME</b> Angle Measuring Equipment	<b>ASAM</b> Active Synthetic Aperture Radar Antiship Missile
<b>AMOS</b> Acoustic Meteorological Ocean Survey	<b>ASAS</b> Antisubmarine Air Supervisor
<b>AMS</b> Advanced Missile System	<b>ASC</b> Air Support Coordinator
<b>AMSS</b> Advanced Multimission Sensor System	<b>ASCAC</b> Antisubmarine Classification and Analysis Center
<b>A/N</b> Alphanumeric	<b>ASCL</b> Advanced Sonobuoy Communication Link
<b>AN</b> Ambient Noise (Sonobuoys)	<b>ASCM</b> Antisubmarine Cruise Missile; Antisurface Cruise Missile; Air-to-Surface Cruise Missile
<b>ANAL</b> Analysis	<b>ASE-MASE</b> Automatic Signal Ejector-Modified Automatic Signal Ejector
<b>ANK</b> Alphanumeric Keyboard	<b>ASIM</b> Antisubmarine Simulation Mode
<b>ANM</b> Ambient Noise Measurement	<b>ASIO</b> A-Scan Indicator Operator
<b>ANMCC</b> Alternate National Military Command Center	<b>ASM</b> Air-to-Surface Missile
<b>ANZUS</b> Australia, New Zealand, United States	<b>ASMD</b> Antiship Missile Defense
<b>AOA</b> Angle of Arrival; Amphibious Objective Area; Area of Activity	<b>ASO</b> Acoustic Sensor Operator
<b>AOE</b> Fast Combat Support Ship	<b>ASP</b> Advanced Signal Processor
<b>AOI</b> Area of Interest	<b>ASPO</b> Acoustic Signal Processor Operator
<b>AOP</b> Area of Probability; Accuracy of Position; Avionics Operational Program	<b>ASPR</b> Armed Services Procurement Regulation
<b>AOR</b> Area of Responsibility; Replenishment Oiler	<b>ASRAP</b> Acoustic Sensor Range Prediction
<b>AOU</b> Area of Uncertainty	<b>ASRAPs</b> Antisubmarine Range Prediction System
<b>AOUE</b> Area of Uncertainty Factor	<b>ASROC</b> Antisubmarine Rocket
<b>APA</b> Air Patrol Area	<b>ASSET</b> AASMD Sensor Suite Evaluation Technique
<b>APAIR</b> ASW Program Air Engagement Model	<b>ASST</b> Antiship Surveillance and Targeting
<b>APBI</b> Advanced Planning Briefings for Industry	<b>ASTACS</b> Air ASW Tactical Support System



**ASUW** Antisurface Warfare  
**ASUWC** Antisurface Warfare Commander  
**ASW** Antisubmarine Warfare  
**ASWC** Antisubmarine Warfare Commander  
**ASWCS** Antisubmarine Warfare Control System  
**ASWCCS** Antisubmarine Warfare Command and Control System  
**ASWCSI** ASW Combat System Integration  
**ASWE** Antisubmarine Warfare Evaluator  
**ASWFCO** Antisubmarine Warfare Fire Control Officer  
**ASWIXS** Antisubmarine Warfare Tactical Information Exchange Subsystem  
**ASWM** Antisubmarine Warfare Module  
**ASWMO** Antisubmarine Warfare Module Officer  
**ASWMWO** Antisubmarine Warfare Module Watch Officer  
**ASWO** Antisubmarine Warfare Officer  
**ASWOC** Antisubmarine Warfare Operations Center  
**ASWS** Advanced Surveillance Workstation  
**ASW/SOW** Antisubmarine Warfare Standoff Weapon  
**ASWSP** Antisubmarine Warfare Systems Project  
**ASWSSF** Antisubmarine Warfare Software Support Facility  
**ASWTC** Antisubmarine Warfare Tactical Coordinator  
**AT** Acceptance Trials  
**ATAC** Air-Transportable Acoustic Communications (Buoy); Airborne Tactical Acoustic Communications  
**ATACO** Air Tactical Control Officer/Operator  
**ATD** Advanced Torpedo Decoy  
**ATDS** Advanced Tactical Data System  
**ATE** Automatic Test Equipment  
**ATF** Amphibious Task Force; Automatic Target Following  
**ATLA** Advanced Thin Line Array  
**ATO** Air/Airborne Tactical Officer  
**ATP** Allied Tactical Publications  
**ATR** Analog Tape Recorder  
**ATT** Acoustic Target Tracker

**AU** Analyzer Unit  
**AUTEC** Atlantic Undersea Test and Evaluation Center  
**AUTODIN** Automatic Digital Information Network  
**AUTOSEVOCOM** Automatic Secure Voice Communications  
**AUTOVON** Automatic Voice Network  
**AUX** Auxiliary  
**AVOID** Avoidance  
**AVTD** Air Vehicle Technology Department  
**AVTR** Aviator  
**AW** Aviation Antisubmarine Warfare Operator  
**AWC** Air Warfare Control  
**AWS** Acoustic Warfare System  
**AX** Aviation Antisubmarine Warfare Technician  
**AXBT** Airborne Expendable Bathythermograph  
**AXP** Allied Exercise Publications

## B

**BARSTUR** Barking Sands Tactical Underwater Range  
**BASIC** Basic Avionics System Integration Model  
**BATGAP** Battle Group ASW Performance Model  
**BATMAN** Battle Group Maneuvering Model  
**BB** Bottom Bounce; Broadband  
**BB/TCK** Bottom Bounce Track  
**BB/TCK/ODT** Bottom Bounce Track Omnidirectional Transmission  
**BB/TCK/TF** Bottom Bounce Track Triple Frequency  
**BB/TF** Bottom Bounce Triple Frequency  
**BC** Bearing Computer  
**B/CONF** Bearing/Confidence  
**BDA** Battle Damage Assessment  
**BDHI** Bearing Distance and Heading Indicators  
**BDI** Bearing Duration Indicator  
**BDR** Best Depth Range  
**BFA** Bearing Frequency Analysis  
**BFI** Bearing Frequency Indicator

**BG** Battle Group  
**BGC** Battle Group Commander  
**BIAS** Buoyant Integrated Antenna System  
**BIDMOD** Buoyfield Iterative Detection Model  
**BIP** Bits in Process  
**BIS** Board of Inspection and Survey  
**BITE** Built-In Test Equipment  
**BIU** Black Interface Unit  
**BLOS** Beyond Line of Sight  
**BOL** Bearing Only Launch  
**BPDMS** Basic Point Defense Missile System  
**BPS** Bits per Second  
**B/R** Bearing Rate; Propeller Blade Rate  
**BRG** Bearing  
**BRI** Bearing Recorder Indicator  
**BRSR** Bearing Rate Slide Rule  
**BSURE** Barking Sands Underwater Range Expansion  
**BT** Bathythermograph  
**BTN** Beam-Riding Terrier Missile (Nuclear Warhead)  
**BTR** Bearing Time Recorder  
**BVP** Beacon Video Processor  
**BW** Bandwidth

## C

**C** Speed of Sound Water  
**C2** Command and Control  
**C2S** Command and Control System  
**C3** Command, Control, and Communications  
**C3CM** Command, Control, and Communications Countermeasures  
**C3I** Command, Control, and Communications, Intelligence  
**CA** Configuration Audit  
**CAC** Computer-Aided Classification  
**CAD/C** Computer-Assisted Detection/Classification  
**CAE** Computer-Automated Engineering  
**CALC** Calculate  
**CAO** Cost Analysis Organizations  
**CAP** Combat Air Patrol  
**CAPTOR** Encapsulated Torpedo  
**CAS** Computer-Assisted Search

**CASE** Computer-Aided Systems Engineering  
**CASREP** Casualty Report  
**CASS** Command Activated Sonobuoy System  
**CAT/CATEG** Category  
**CCG** Cartesian Coordinate Grid  
**CCM** Counter-Countermeasure  
**CCS** Combat Control System  
**CCSC** Cryptologic Combat Support Console  
**CCSIP** Combat Control System Improvement Program  
**CCU** Central Control Unit  
**CD** Counterdetection  
**C&D** Command and Decision System  
**CDC** Combat Direction Center; Central Data Controller  
**CDF** CWCS Development Facility  
**CDP** Contact Data Package  
**CDPS** Consolidated Decision Package Set  
**CDS** Combat Direction System  
**CE** Current Estimate  
**CEB** CNO Executive Board  
**CEP** Contact Evaluation Plot  
**CETS** Contractor Engineering Technical Services  
**CFA** Cognizant Field Activity  
**CFR** Cylinder Firing Rate  
**CFSR** Contract Funds Status Report  
**CFV** Control Formatting Unit  
**CFY** Current Fiscal Year  
**CG** Guided Missile Cruiser  
**CGN** Guided Missile Cruiser Nuclear  
**CGX** Future Guided Missile Cruiser  
**CHIRP** High Resolution Pulse Compression  
**CHIP** Change of Operating Procedure  
**CI** Contact Investigation; Configuration Item  
**CIC** Combat Information Center  
**CICSUP** Combat Information Center Supervisor  
**CIDS** Coordination in Direct Support  
**CINC** Commander in Chief  
**CINCEUR** Commander in Chief, U.S. Forces, Europe  
**CINCLANT** Commander in Chief, U.S. Forces, Atlantic

**CINCLANTFLT** Commander in Chief, U.S. Atlantic Fleet  
**CINCPAC** Commander in Chief, U.S. Forces, Pacific  
**CIP** Critical Intelligence Parameter  
**CIT** Command Interface Test; Controlled Interceptor Trainer  
**CIWS** Close-In Weapon System  
**CJCS** Chairman, Joint Chiefs of Staff  
**CLAMS** Countermeasure Launcher and Module System  
**CLASS** Classification (Ships)  
**CLF** Comparative LOFAR fixing  
**CLG** Guided Missile Light Cruiser  
**CLI** Communications Line Interface  
**CLIPS** Calculator Link Processing System  
**CM** Countermeasure; Cruise Missile  
**CMD** Command  
**CNCC** Communications Network Computer/Controller  
**CND** Chief of Naval Development  
**CNO** Chief of Naval Operations  
**CNR** Chief of Naval Research  
**CNOC** Commander Naval Oceanography Command  
**CO** Commanding Officer  
**COD** Carrier On-Board Delivery  
**CODAR** Correlation Detection and Recording  
**COFIX** Comparative LOFAR Fixing  
**COMM** Communications  
**COMM MSG** Communication Message  
**COMM PARAM** Communications Parameter  
**COMMSAT** Communications Satellite  
**COMNAVSURFLANT** Commander, Naval Surface Force, U.S. Atlantic Fleet  
**COMPASS** Computer-Aided Surveillance Subsystem  
**COMPATFOR** Commander Patrol Force  
**COMSEC** Communications Security  
**COMSUB (LANT)** Commander Submarine (Atlantic-Norfolk);  
**(PAC)** (Pacific-Pearl Harbor)  
**COMSUBGRU** Commander, Submarine Group

**COMSUBLANT** Commander, Submarine Force, U.S. Atlantic Fleet  
**COMSUBPAC** Commander, Submarine Force, U.S. Pacific Fleet  
**CONPLAN** Operation Plan in Concept Format  
**COPS** Computer-Oriented Partial Sum Beamformers  
**CORR** Correlation  
**COSAL** Consolidated Ship/Station Allowance List  
**COTAC** Co-Tactical; Co-TACCO (Tactical Coordinator)  
**COTD** Commanding Officer Tactical Display Operator  
**CP** Coded Pulse; Communications Processor  
**CPA** Closest Point of Approach  
**CPAM** CNO Program Analysis Memorandum  
**CPCI** Computer Program CI  
**CPCR** Computer Program Change Request  
**CPD** Cumulative Probability of Detection  
**CPFF** Cost Plus Fixed Fee  
**CPIF** Cost Plus Incentive Fee  
**CPP** Claimant Program Proposal  
**CPPG** CNO Policy and Planning Guidance  
**CPU** Central Processing Unit  
**C&R** Coordination and Reporting  
**CR** Constant Resolution  
**CRA** Communications Relay Aircraft  
**CRATT** Covered Radio Teletype  
**CRT** Cathode Ray Tube  
**CS** Combat System; Computer Subsystem  
**CSA** Close Support Area  
**CSC** Combat System Coordinator  
**CSCG** Communications System Control Group  
**CSDC** Central Signal Data Converter  
**CSDR** Combat System Design Requirement  
**CSE** Course  
**CSEDS** Combat System Engineering Development Site

**CSP** Changeable System Parameter  
**CSR** Crankshaft Rate  
**CSRC** Cryptologic Support Resource Console  
**CSS** Computer Subsystem  
**CST** Console Selected Target  
**CSTAP** CNO Studies and Analyses Program  
**CT** Combined Trials  
**CTAL** Crystal (XTAL)  
**CTCZ** Carrier Tactical Control Zone  
**CTF** Commander Task Force  
**CTG** Commander Task Group  
**CTOL** Conventional Takeoff and Landing  
**CTS** Course to Steer  
**CTSDB** Centralized Theater Surveillance Data Base  
**CTSL** Common Track Stores Locator  
**CTU** Commander Task Unit  
**CUDIXS** Common User Digital Information Exchange System  
**CV** Aircraft Carrier  
**CVA** Attack Aircraft Carrier  
**CV/ASWM** Carrier ASW Module  
**CVBF** Carrier Battle Force  
**CVBG** Carrier Battle Group  
**CV-CS** CV Combat System  
**CVHG** Helicopter and Guided Missile Aircraft Carrier  
**CVIC** Carrier Intelligence Center  
**CVIC SUPPLOT** Carrier Intelligence Center Supplementary Plot  
**CVN** Aircraft Carrier Nuclear; Multipurpose Aircraft Carrier (Nuclear-Powered)  
**CVOS** Carrier Operating System  
**CVSG** Guided Missile Antisubmarine Aircraft Carrier  
**CVTSC** Carrier-Based Tactical Support Center  
**CW** Continuous Wave  
**CWC** Composite Warfare Commander  
**CWCS** Common Weapons Control System  
**CWI** Continuous Wave Illuminator  
**CZ** Convergence Zone

**CZR** Convergence Zone Range  
**CZW** Convergence Zone Width

## D

**DA** Developing Agency  
**D/A** Digital-to-Analog  
**DAC** Design Analysis and Commonality  
**DAMA** Demand Assigned Multiple Access  
**DAME** Distance and Altitude Measuring System; Distance/Azimuth Measuring Equipment  
**DAMS** Drum Auxiliary Memory Subunit  
**DARPA** Defense Advanced Research Projects Agency  
**DARS** Defense Acquisition Regulatory System  
**DASG** Digital Acoustic Signal Generator  
**DASS** Digital Acoustic Simulator System  
**DATS** Data Transmission System  
**DBM** Data Base Management  
**DC** Data Complete; Development Coordinator  
**DCA** Defense Communications Agency  
**DCP** Decision Coordinating Paper; Development Concept Paper  
**DCS** Defense Communications System  
**DC&T** Detection, Classification, and Targeting  
**DCU** Display Control Unit  
**DD** Destroyer  
**D/D** Digital to Digital  
**D&D** Display and Decision (Area of CIC)  
**DDC** Digital Data Computer  
**DDG** Guided Missile Destroyer  
**DDGX** Future Guided Missile Destroyer  
**DDN** Defense/Digital Data Network  
**DE** Data Element; Destroyer Escort; Decoder/Encoder  
**D/E** Diesel/Electric; Depression/Elevation  
**DECM** Defensive Electronic Countermeasures  
**DECPT MAN** Deceptive Maneuver  
**DEFCON** Defense Readiness Condition  
**DEMON** Demodulated Noise

<b>DES</b> Data Encryption Standard	<b>DOD</b> Department of Defense
<b>DF</b> Direction Finder; Display Formatter	<b>DON</b> Department of the Navy
<b>D&amp;F</b> Determination and Findings	<b>DONPIC</b> Department of the Navy Program Information Center
<b>DGU</b> Display Generator Unit	<b>DOP</b> Development Options Paper
<b>DI</b> Directivity Index	<b>DOTS</b> Development Operational Tactical System
<b>DIA</b> Defense Intelligence Agency	<b>DP</b> Direct Path
<b>DICASS</b> Directional Command Activated Sonobuoy System	<b>DP&amp;E</b> Director, Planning and Evaluation
<b>DIDP</b> Display Data Processor	<b>DPS</b> Data Processing System
<b>DI/DU</b> Data Input/Data User	<b>DR</b> Dead Reckoning
<b>DIFAR</b> Directional Low Frequency Analysis and Recording (LOFAR)	<b>DRB</b> Defense Resources Board
<b>DIHT</b> Data Input History Table	<b>DRM</b> Direction of Relative Motion
<b>DIMUS</b> Digital Multibeam Steering	<b>DRO</b> Data Readout
<b>DISMAC</b> Digital Scene Matching and Correlation	<b>DRS</b> Detection and Ranging Set
<b>DITEG</b> Digital Television Graphics	<b>DRT</b> Dead Reckoning Track
<b>DITS</b> Data Information Transfer System	<b>DS</b> Direct Support
<b>DIU</b> Digital Interface Unit	<b>DSA</b> Distant Support Area
<b>DL</b> Directional Listening	<b>DSARC</b> Defense Systems Acquisition Review Council
<b>DLA</b> Defense Logistics Agency	<b>DSB</b> Defense Science Board
<b>DLC</b> Directional Listening Control; Down Link Communication	<b>DSC</b> Deep Sound Channel
<b>DLCS</b> Data Link Communications System	<b>DSCS</b> Defense Satellite Communications System
<b>DLI</b> Deck-Launched Interceptor	<b>DSL</b> Deep Scattering Layer
<b>DLP</b> Director of Laboratory Programs	<b>DSM</b> Data Storage Memory; Digital Simulation Model
<b>DLPP</b> Data Link Preprocessor	<b>DSMC</b> Defense Systems Management College
<b>DLRP</b> Data Link Reference Point	<b>DSP</b> Defense Standardization Program
<b>DM</b> Digital Memory	<b>DSSCS</b> Defense Special Security Communications System
<b>DM/SINS</b> Dual Miniature/ Ships Inertial Navigation System	<b>DSSI</b> Digital Sector Scan Indicator
<b>DMA</b> Defense Mapping Agency; Direct Memory Access	<b>DST</b> Destructor (Mine)
<b>DME</b> Distance Measuring Equipment; Distance Measurement Estimation	<b>DT</b> Data Transmission; Digital Tracker; Detection Threshold
<b>DMP</b> Direct Measurement Program	<b>DTAS</b> Depressors to Towed Array Sonar
<b>DMS</b> Data Multiplexer Subunit; Disk Memory Set; Drum Memory System	<b>DTC</b> Desk Top Computer/Counter
<b>DMSO</b> Director Major Staff Office	<b>DTD</b> Data Transport Device
<b>DMTC</b> Digital Magnetic Tape Controller	<b>DTDMA</b> Distributive Time Division Multiplier Access
<b>DMTU</b> Digital Magnetic Tape Unit	<b>DT&amp;E</b> Developmental Test and Evaluation
<b>DMU</b> Digital Memory Unit; Data Measurement Unit	<b>DTG</b> Date-Time Group
<b>DMX</b> Demultiplexer	<b>DTIC</b> Defense Technical Information Center
<b>DNCU</b> Data Net Control Unit	<b>DTL</b> Direct Travel and Labor
<b>DNL</b> Director of Navy Laboratories	<b>DTP</b> Design to Price
<b>DNPP</b> Director, Navy Program Planning	<b>DTS</b> Data Terminal Set
<b>DNPPG</b> Department of the Navy Policy and Planning Guidance	

**DTVPU** Digital TV Projection Unit  
**DVARS** Doppler Velocity Altimeter Radar Set  
**DVST** Direct View Storage Tube  
**DX** Data Extraction

## **E**

**E** Event  
**EAF** Expeditionary Air Field; Experimental Analysis Form  
**EAM** Emergency Action Messages  
**EAP** Emergency Action Procedures  
**EAS** Engine Alternatives Study  
**EC** Engineering Change; Evaluation Center  
**EC-121** Electronic Surveillance Aircraft  
**ECCM** Electronic Counter-Countermeasures  
**ECLIPS** Expanded Calculator Link Information Processing  
**ECM** Electronic Countermeasures (Active)  
**ECMD** Enemy Cruise Missiles Defeated  
**ECMU** Extended Core Memory Unit  
**ECP** Engineering Change Proposal  
**ECT** Estimated Completion Time  
**EDD** Engagement Data Display  
**EDE** Environmental Data Entry  
**E/E** Entry/Egress  
**EEFI** Essential Elements of Friendly Information  
**EHF** Extremely High Frequency  
**EIA** Environmental Impact Assessments  
**EIS** External Interface Simulator  
**ELF** Extremely Low Frequency  
**ELINT** Electronic Intelligence  
**ELLIP** Ellipse  
**ELOS** Extended Line of Sight  
**ELW** Electronic Warfare  
**EM** Extended Mission  
**EMATT** Expendable Mobile ASW Training Target  
**EMC** Electromagnetic Compatibility  
**EMCON** Emission Control  
**EMI** Electromagnetic Interference  
**EMR** Enter Mode Radar  
**EMU** Electronic Modular Unit  
**EOB** Electronic Order of Battle

**EOOW** Engineering Officer of the Watch  
**EOT** End of Tape  
**EP** Estimated Position  
**EPA** Extended Planning Annex  
**EPC** Emergency Preset Console  
**EPL** Electronic Intelligence Parameter Limits  
**EPS** Engineering Performance Standards  
**EQP** Equipment Status Tableau  
**ERAPS** Expendable Reliable Acoustic Path Sonobuoy  
**ERCS** Emergency Rocket Communication System  
**ERP** Effective Radiated Power  
**ESA** Engineering Support Activity  
**ESBL** Engine Start Before Launch  
**ESGN** Electrically Suspended Gyro Navigator  
**ESM** Electronic Surveillance Measures (Passive); Electronic Support Measures  
**ESMOP** Electronic Support Measures Operational Program  
**ESO** Electronic Supply Office  
**ESR** Executive Service Request  
**ETA** Estimated Time of Arrival  
**ETD** Estimated Time of Departure  
**ETS** Engineering Technical Services  
**EW** Electronic Warfare  
**EWC** Electronic Warfare Coordinator  
**EWEPS** Environment/Weapons Effect Prediction System  
**EWS** Electronic Warfare System; Electronic Warfare Supervisor  
**EXCAP** Expanded Capability  
**EXCOMS** External Communications Subsystem

## **F**

**FABS** Forward Active Buoy Screen  
**FACSFAC** Fleet Air Control and Surveillance Facility  
**FACT** Fast Asymptotic Coherent Transmission  
**FADAP** Fleet ASW Data Analysis Program  
**FASO** Fleet Support Origination  
**FASP** Facility for Automated Software Production  
**FBM** Fleet Ballistic Missile

**FBT** Fine Bearing Tracker  
**FCA** Functional Configuration Audit  
**FCC** Fire Control Coordinator; Fleet Command Center  
**FCDSSA** Fleet Combat Direction Systems Support Activity  
**FCPS** Fleet Ocean Surveillance Information Center Communications Processing Subsystem  
**FCR** Fire Control Radar  
**FCRC** Federal Contract Research Center  
**FCS** Fire Control System  
**FCSC** Fire Control System Coordinator  
**FCTCLANT** Fleet Combat Training Center, Atlantic  
**FCTCP** Fleet Combat Training Center, Pacific  
**FD** Functional Description  
**FDDI** Fiber-Optic Distributed Data Interface  
**FDDS** Flag Data Display System  
**FDE** Frequency Domain Equalization  
**FDS** Fixed Distributed Subsystem  
**F/E** Fleet Escort  
**FED** Federation  
**FF** Frigate  
**FFG** Guided Missile Frigate  
**FFK** Fixed Function Key  
**FFT** Fast Fourier Transform  
**FHLT** Force High-Level Terminal  
**FIC** Fleet Intelligence Center  
**FICLANT** Fleet Intelligence Center, Atlantic  
**FICPAC** Fleet Intelligence Center, Pacific  
**FIDU** Filtered Input Data Unit  
**FIP** Fleet Introduction Program  
**FK** Function Key  
**FLETAC** Fleet Tactical  
**FLIR** Forward-Looking Infrared Radar  
**FLIT** Frequency Line Integration Trackers  
**FLIT/MATE** Frequency Line Tracker/Manual Adaptive Target Motion Analysis Evaluator  
**FLTCINC** Fleet Commander-in-Chief  
**FLTSATCOM** Fleet Satellite Communications  
**FM** Frequency Modulation  
**FMF** Fleet Marine Forces

**FMR** Financial Management Report  
**FMSO** Fleet Material Supply Office  
**FN** Function  
**FNOC** Fleet Numerical Oceanographic Center  
**FNWC** Fleet Numerical Weather Center  
**FOM** Figure of Merit  
**FORSTAT** Force Status and Identity Report  
**FOSIC** Fleet Ocean Surveillance Information Center  
**FOSIF** Fleet Ocean Surveillance Information Facility  
**FOTC** Force OTH-T Track Coordinator  
**FOT&E** Follow-On Test and Evaluation  
**FOV** Field of View  
**FPO** Firing Petty Officer  
**FQR** Functional Qualification Review  
**FQT** Formal Qualification Test  
**FR** Engine Firing Rate  
**FRAZ** Frequency-Azimuth  
**FREQ** Frequency  
**FRO** Flexible Response Option  
**FROG** Functional Requirement Operation Goal  
**FRS** Fleet Readiness Squadron  
**FSA** Fast/Slow Adapter  
**FSD** Full-Scale Development  
**FSK** Frequency Shift Keying  
**FTA** Fast-Time Analyzer  
**FTC** Frequency Translator-Compressor; Force Track Coordinator; False Target Can  
**FTP** Functional Test Procedure; Fly to Point  
**FTV** Force Training Video  
**FUR** Failure and Unsatisfactory Report  
**FWC** Weather Center  
**FWD** Forward  
**FP, EX/P** Fleet Exercise Publications  
**FY** Fiscal Year  
**FYDP** Five-Year Defense Plan

## G

**GaAsp** Gallium Arsenide Phosphate  
**GACT** Graphics Analysis and Correlation Terminal  
**GDE** General Data Entry

**GEM** Generic Engagement Model  
**GENSER** General Service  
 (Communications)  
**GFCS** Gun Fire Control System  
**GM** Guided Missile  
**GMF** Geometric Mean Frequency  
**GMLS** Guided Missile Launching System  
**GMST** Defense Intelligence Agency  
 Glossary of Merchant and Ship Types  
**GMT** Greenwich Mean Time (Zulu)  
**GNST** Defense Intelligence Agency  
 Glossary of Naval Ship Types  
**GP** General Purpose  
**GPDC** General-Purpose Digital Computer  
**GPI** Position Indicator  
**GPO** Government Printing Office  
**GPSCS** General-Purpose Satellite  
 Communications System  
**GRA** Government Research  
 Announcement  
**GRP** Glass-Reinforced Plastic  
**GVD** Group View Display

## H

**HACLCS** Harpoon Aircraft Command  
 Launch Control Set  
**HALO** Harpoon Air-Launched Over-  
 the-Horizon Targeting  
**HALT** Higher Away Lower Toward  
**HARM** High-Speed Antiradiation Missile  
**HC VERTREP** Helicopter; Helo  
 Coordinator  
**HCU** Helicopter Control Unit  
**HDR** Header  
**HE** High Explosive  
**HELO** Helicopter  
**HELOMTWR** Helicopter Long-Range  
 Acoustic System  
**HERO** Hazards of Electromagnetic  
 Radiation to Ordnance  
**HESDEP** Helicopter Sensor Development  
 Program  
**HESM** Helicopter Screening Model  
**HF** High Frequency  
**HFDF** High-Frequency Direction Finding  
**HgCdTe** Mercury Cadmium Telluride  
**HIFR** Helicopter In-Flight Refueling  
**HIP** Hardware Integration Program

**HIT** High-Interest Target  
**HLA** Horizontal Line Array  
**HLOP** Hyperbolic Line of Position  
**HLT** High-Level Terminal  
**HM AMCM** Helicopter  
**HML** Marine Light Assault Helicopter  
**HMM** Marine Medium Assault Helicopter  
**HNB** Hydrophone Narrowband  
**HOF** Hits On Own Force  
**HOGE** Hover Out of Ground Effect  
**HOJ** Home On Jamming  
**HOLD** Retain in Ambiguity File  
**HOLT** Retain in Ambiguity File  
**HOST** Hostile  
**HOZ** Horizontal  
**HPAC** High-Pressure Air Compressor  
**HQ** Headquarters  
**HS** Carrier ASW Helicopter; Helicopter  
 ASW Squadron  
**H&SE** Handling and Storage Equipment  
**HSIS** Horizontal Situation Indicator  
 System  
**HSL LAMPS** ASW Helicopter  
**HSR** Helicopter Supported Radar  
**HST** Hauldown, Securing, and Traversing  
**HT** Homing Terrier (Missile)  
**HTR** Homing Terrier Retrofit; Hardware  
 Trouble Report  
**HUK** Hunter Killer  
**HULTEC** Hull-to-Emitter Correlation  
**HVD** Hub Vortex Dissipator  
**HVU** High-Value Unit  
**H/W** Hardware  
**HWCIP** Harpoon Weapon Control  
 Indicator Panel Operator  
**HWS** Harpoon Weapon System  
**HX** Experimental Helicopter  
**HXM** Next Generation Marine Medium  
 Assault Helicopter

## I

**IAC** Interarray Communications  
**IACS** Integrated Acoustics  
 Communication System  
**IAD** Interarray Display; Integrated  
 Acoustic Display  
**IAP** Interarray Processor  
**IAS** Indicated Airspeed  
**IC** Intelligence Center



<b>ICAD</b> Integrated Cover and Deception	<b>IOC</b> Initial Operational Capability;
<b>ICAPS</b> Integrated Carrier ASW Prediction System	<b>Input/Output</b> Controller
<b>ICDC</b> Improved Control Display Console	<b>IOIC</b> Electronics/Integrated Operational Intelligence
<b>ICS</b> Integrated Communications System	<b>IOT&amp;E</b> Initial Operational Test and Evaluation
<b>ID</b> Identification	<b>IP</b> Initial Point
<b>IDENT</b> Identify	<b>IPDMS</b> Improved Point Defense Missile System
<b>IDHS</b> Intelligence Data Handling System	<b>IPL</b> Initial Program Load
<b>IDP</b> Individual Development Plan	<b>IPS</b> Integrated Program Summary
<b>IDS</b> Information and Display System; Interface Design Specification	<b>IPSS</b> Information Processing Subsystem
<b>IDWA</b> Interdirectorate Work Agreement	<b>IQS</b> Individual Qualification Standards
<b>IDZ</b> Inner Defense Zone	<b>IR</b> Infrared
<b>IESS</b> Information Extraction Subsystem	<b>IRCM</b> Infrared Countermeasure
<b>I/F</b> Interface	<b>IRDS</b> Infrared Detection System
<b>IFCC</b> Interim Fleet Command Center	<b>IRDTS</b> Infrared Detection and Tracking System
<b>IFF</b> Identification, Friend or Foe	<b>IRMLD</b> Infrared Missile Launch Detector
<b>IFFN</b> Identification, Friend, Foe, or Neutral	<b>IREPS</b> Integrated Refraction Effects Prediction System
<b>IFM</b> Instantaneous Frequency Monitoring; Intermediate Frequency Modulation	<b>IRP</b> Interference Rejection Processor; Intermediate Rated Power
<b>IFPM</b> In-Flight Performance Monitoring	<b>IRSS</b> Infrared Search Set
<b>IFR</b> Instrument Flight Rules	<b>IS</b> Intelligence Systems; Information System
<b>IFT</b> In-Flight Technician	<b>ISA</b> Integrated Support Area
<b>IFTAS</b> Interim Fast Time Analyzer System	<b>ISAR</b> Inverse Synthetic Aperture Radar
<b>IG</b> Inspector General	<b>ISD</b> Initial Search Depth
<b>IID</b> Integrated Information Display	<b>ISE</b> Individual Ship Exercises
<b>IIF</b> Integrated Information Function	<b>ISR</b> Identification Safety Range
<b>ILCS</b> Improved Low-Cost Sonobuoy	<b>ISS</b> Intelligence Support System
<b>ILS</b> Integrated Logistic Support	<b>ITA</b> Intermediate Time Averaged
<b>ILSP</b> ILS Plan	<b>ITASS</b> Interim Towed Array Surveillance System
<b>IMA</b> Intermediate Maintenance Activity	<b>ITDA</b> Integrated Tactical Decision Aid
<b>IMC</b> Instrument Meteorological Conditions	<b>ITER</b> Improved Triple Ejection Rack
<b>IMU</b> Inertial Measurement Unit	<b>ITERCOMS</b> Internode Communications Subsystem
<b>IMRL</b> Individual Material Requirements List	<b>ITRACOMS</b> Intranode Communications Subsystem
<b>IMS</b> Instrumented Measuring System	<b>ITP</b> Integrated Test Package
<b>INC</b> Inertial Navigation Computer	<b>ITSS</b> Improved Tactical Surveillance System
<b>INCOS</b> Integrated Control System	<b>IUSS</b> Integrated Undersea Surveillance System; Integrated Underwater Sound System (SOSUS)
<b>INS</b> Inertial Navigation System; Institute of Naval Studies	<b>IVDS</b> Independent Variable-Depth Sonar
<b>INT</b> Initialization Tableau	
<b>INTEL</b> Intelligence	
<b>I/O</b> Input/Output	
<b>IO</b> Inventory Objective	
<b>IOA</b> Input/Output Adapter	

**IV&V** Independent Validation and Verification  
**I&W** Indications and Warnings  
**IWD** Intermediate Water Depth (Mine)  
**IXS** Information Exchange System

## **J**

**JCS** Joint Chiefs of Staff  
**JCSM** Joint Chiefs of Staff Memorandum  
**JEZ** Jezebel Relay  
**JIEP** Joint Intelligence Estimate for Planning  
**JINTACCS** Joint Interoperability Tactical Command and Control System  
**JLRSA** Joint Long-Range Strategic Appraisal  
**JMSNS** Justification for Major System New Start  
**JOOD** Junior Officer of the Deck  
**JOPS** Joint Operations Planning System  
**JOTS** Joint Operational Tactical System  
**JTIDS** Joint Tactical Information Distribution System

## **K**

**KAST** Kalman Automatic Sequential Target Motion Analysis  
**KCMX** Keyset Control Multiplexer  
**KIAS** Knots Indicated Airspeed

## **L**

**LAMBDA** Large-Aperture Marine Basic Data Array  
**LAMPS** Light Airborne Multipurpose System  
**LAMPS-MK-III** Light Airborne Multipurpose System Mark-III  
**LAN** Local Area Network  
**LANTCOM** Atlantic Command  
**LANTFLT** U.S. Atlantic Fleet  
**LAR** Launch Acceptability Region  
**LASCAR** Localization and Attack Systems Characterizations  
**LAVA** Linear Acoustic Vernier Analysis; Low-Frequency Acoustic Vernier Analyzer  
**LC** Launch Control

**LCC** Amphibious Command Ship  
**LCCP** Launcher Captain Control Panel  
**LCCPO** Launcher Captain Control Panel Operator  
**LDMX** Local Digital Message Exchange  
**LDR** Low Data Rate  
**LEC** LAMPS Element Coordinator  
**LF** Low Frequency  
**LFA** Low Frequency Active  
**LFM** Low Frequency Modulation  
**LGB** Laser-Guided Bomb  
**LGD** Large Group Display  
**LGR** LOFAR Gram Recorder  
**LGVD** Large Group View Display  
**LHA** Amphibious Assault Ship (General Purpose)  
**LICT** Longitudinal Induced Compensation Trimmer  
**LIDAR** Light Detection and Ranging  
**LINK** TIUSS Internode Link  
**LLA** Limiting Lines of Approach  
**LLTV** Low-Light-Level Television  
**LLSA** Limiting Lines of Surface Approach  
**LLQA** Limiting Lines of Quiet Approach  
**LLSUA** Limiting Lines of Submerged Approach  
**LMS** Lightweight Magnetic Sweep  
**LOB** Line of Bearing  
**LOFAR** Low-Frequency Analysis and Recording  
**LORA** Long-Range Addition  
**LORAN** Long-Range Aids to Navigation  
**LOS** Line of Sight  
**LPH** Amphibious Assault Ship  
**LPI** Low Probability of Intercept  
**LR** Long Range; Locating Report  
**LRAACA** Long-Range Air ASW Capable Aircraft  
**LRASM** Long-Range Air-to-Surface Missile  
**LRG** Long-Range Guidelines  
**LRI** Limited Range Intercept  
**LRM** Limited Range Missile  
**LRMP** Long-Range Maritime Patrol  
**LRO** Long-Range Objectives  
**LSB** Lower Sideband  
**LSD** Large Screen Display  
**LSI** Low Ship Impact

**LSNSR** Line-of-Bearing Sensor  
**LSR** Line Scan Recorder  
**L&T** Localization and Tracking  
**LTA** Long Time Averaged  
**LTE** Launch-to-Eject  
**LUNAR** Low-Frequency Undersea  
 Numerical Acoustic Ranging  
**LUSC** Lightweight Undersea Sensor  
 Component  
**LWTR** Lightweight Infrared (Sensor)

## M

**M/A** Modeling and Appraisals  
**MAC** Military Airlift Command  
**MAD** Magnetic Anomaly Detector  
**MADAIR** Magnetic Anomaly Detection  
 and Identification Ranging  
**MADC** Machine-Assisted Detection and  
 Classification  
**MADTACS** MAD Tracking and  
 Compensation Software  
**MADVECS** Magnetic Anomaly Detector  
 Vectors  
**MARISAT** Maritime Satellite  
**MASE** Modified Aft Signal Ejector  
**MASWSP** Manager, ASW Systems  
 Project  
**MCAR** Multichannel Acoustic Relay  
**MCJR** Multichannel Jezebel Relay  
**MCM** Mine Countermeasures  
**MCP** Maintenance Control Panel;  
 Maximum Continuous Power  
**MCU** Manual Control Unit; Miniature  
 Command Unit  
**MDL** Minimum Detectable Level  
**MDM** Magnetic Drum Memory  
**MDR** Median Detection Range  
**MDS** Minimum Discernible Signal  
**MEC** Main Evaluation Center  
**MODLOC** Modified Location

## N

**NBDC** Narrowband Detection and  
 Classification  
**NBGATE** Narrowband Local Area  
 Network Gateway  
**NBLAN** Narrowband Local Area Network

**NCA** National Command Authority  
**NCC** Naval Command Center; Naval  
 Component Commander; Network Control  
 Center  
**NCCS** Navy Command and Control  
 Systems  
**NCO** Net Control Officer  
**NCS** Naval Communications System;  
 Naval Control of Shipping; Net Control  
 System  
**NEARTIP** Near-Term Improvement  
 Program  
**NESTOR** Secure Voice Communication  
**NFC** Numbered Fleet Commander  
**NGFS** Naval Gunfire Support  
**NIPS** Naval Intelligence Processing  
 System  
**NISC** Naval Intelligence Support Center  
**NKP** Navigation Keyboard/Printer  
**NL** Noise Level  
**NLRG** Navy Long-Range Guidance  
**nmi or NM** Nautical Mile  
**NMRG** Navy Midrange Guidance  
**NMGR** Navy Modular Growth Radio  
**NOBSY** Naval Observatory  
**NOIC** Naval Operational Intelligence  
 Center  
**NOMSS** Naval Oceanographic and  
 Meteorological Support System  
**NOP** Naval Operative Plan  
**NOPF** Naval Oceanographic Processing  
 Facility  
**NORDA** Naval Ocean Research and  
 Development Activity  
**NORM** Normal Position  
**NOSC** Naval Ocean Systems Center  
**NOSIC** Naval Ocean Surveillance  
 Information Center  
**NRO** No Runout  
**NRPF** Naval Regional Processing Facility  
**NRT** Non-Real Time  
**NS** Near Surface  
**NSOF** Naval Status of Forces (Data File)  
**NTDS** Naval Tactical Data System  
**NUWES** Naval Underwater Weapons  
 Engineering Station  
**NWESA** Naval Weapons Engineering  
 Support Activity

NWOC Naval Weather Oceanographic  
Center  
NWP Naval Warfare Publication

## O

OA Operational Assembly  
OBS Omnibearing Selector; OSIS  
Baseline System  
OBU OSIS Baseline Upgrade  
ODT Omnidirectional Transmission  
OEG Operations Evaluation Group  
OMAT Ocean Measurements and Array  
Technology Program  
OMI Operator Machine Interface  
OMS Optimum Mode Selection  
OOA Out of Action  
OOB Order of Battle  
OOD Officer of the Deck  
OP CDR Operations Commander  
OPCON Operational Control  
OPDEC Operational Deception  
OPEVAL Operational Evaluation  
OPGEN Operation Generation  
OPINTEL Operational Intelligence  
OPLAN Operational Plan  
OPNOTES Operational Notes  
OPORD Operating Orders  
OPORDER Operation Order  
OPS Operations  
OPTEVFOR Operational Test and  
Evaluation Force  
OR Operational Requirement  
ORATS Operational Readiness  
Assessment and Training System  
ORDALT Ordnance Alteration  
OSDHT Own-Ship Data History Table  
ORI Operational Readiness Inspection  
OS Operating System  
OSI Open Systems Interconnection  
OSIS Ocean Surveillance Information  
System  
OSP Ocean Surveillance Product  
OSS Optimum Sonar Speed  
OTC Officer in Tactical Command  
OTCIIXS Officer in Tactical Command  
Information Exchange Subsystem  
OT&E Operational Test and Evaluation  
OTF Optimum Traffic Frequency

OTH Over the Horizon  
OTH-DA Over-the-Horizon Damage  
Assessment  
OTH/DCT Over-the-Horizon Detection,  
Classification, and Targeting  
OTH-T Over-the-Horizon Targeting  
OTMS Operational Technical  
Management System  
OTPI On-Top Position Indicator  
OTS Over the Side  
OUTBOARD Shipboard Tactical Signals  
Exploitation/Direction Finding System

## P

P-3C A Land-Based, Fixed-Wing Patrol  
Aircraft, ASW  
PA Periscope Assistant; Probability of  
Attack  
PAC Passive Acoustic Classification  
PACLOC Passive Acoustic Classification  
Lock  
PAD Passive Acoustic Detection  
PADS Passive Advanced Sonobuoy  
PAIR Performance and Integration  
Retrofit  
PBB Passive Broadband  
PCOTES Prototype Carrier Operational  
T&E Site  
PD Probability of Detection  
PDC Practice Depth Charge; Probability  
of Detection and Conversion  
PDIP Preflight Data-Insertion Program  
PDIT Preflight Data-Insertion Tape  
PDM Point Defense Missile  
PDPC Post-Detection Pulse Compression  
PDR Periscope Depth Range  
PDS Passive Detection System; Pulse  
Doppler Search  
PDT Processed Directional Transmission;  
Passive Detection and Tracking  
PE Parabolic Equation  
PEC Passive Equipment Cabinet  
PEP Performance Evaluation and  
Prediction Program (SOSUS)  
PERT/CPM Program Evaluation Review  
Technique/Critical Path Method  
PF Patrol Frigate  
PFA Probability of False Alarm  
PFN Pulse Forming Network

**PG** Patrol Gunboats  
**PGG** Guided Missile Patrol Boat  
**PGGX** Future Guided Missile Patrol Boat  
**PHIT** Probability of Hit  
**PHITAR** Predesignated High-Interest Target Area  
**PHOTINT** Photographic Intelligence  
**PI** Performance Index  
**PI/PE** Passive Identification and Detection Equipment  
**PIM** Position and Intended Movement  
**PIRAZ** Positive Identification Radar Advisory Zone  
**PK** Position Keeping; Probability of Kill  
**PL** Probability of Localization; Position Launch; Propagation Loss  
**PLBOL** Position Launch/Bearing Only Launch  
**PLE** Prudent Limit of Endurance  
**PLX** Position Launch Search Mode  
**PM/FD/FL** Performance Monitoring/Fault Detection/Fault Location  
**PM/FL** Performance Monitoring/Fault Locating  
**PMOP** Phase Modulation on Pulse  
**PMTC** Pacific Missile Test Center  
**PNB** Passive Narrowband  
**POE** Projected Operational Environments  
**POM** Program Objectives Memorandum  
**POS** Position  
**POSCOR** Position Corrected  
**POSSUB** Possible Submarine  
**POST** Prototype Ocean Surveillance Terminal  
**PPI** Plan Position Indicator  
**PPS** Program Performance Specifications  
**PR** Passive Recording; Problem Report  
**PRD** Predicted Range of the Day  
**PREOS** Prediction of Range for Electro-Optical Systems  
**PRF** Pulse Repetition Frequency  
**PRI** Pulse Repetition Interval; Pulse Rate Indicator  
**PRITAC** Primary Tactical Circuit  
**PRO** Passive Recorder Operator  
**PROBSUB** Probable Submarine Contact  
**PROP** Propulsion  
**PROTDA** Protection Probability for Avoidance Ship/Actual

**PRP** Pulse Repetition Period  
**PRR** Pulse Repetition Rate  
**PS** Power Supply  
**PSA** Persistent Search and Attack  
**PSLT** Pressurized Sonobuoy Launch Tube  
**P SNSR** Position Sensor  
**PSP** Programmable Signal Processor  
**PSR** Predicted Sonar Range  
**PSSK** Probability of Single-Shot Kill  
**PTA** Passive Tracking Algorithm  
**PTFG** Guided Missile Fast Patrol Boat  
**PTG** Fast Patrol Craft  
**PTGHX** Future Fast Patrol Craft (Hydrofoil)  
**PTR** Program Trouble Report  
**PU** Participating Unit (Data Link)  
**PUCR** Preprogrammed Underwater Communications Receiver  
**PW** Pulse Width

## Q

**QRC** Quick Reaction Capability

## R

**R** Range  
**RAC** Radar Azimuth Converter  
**RACC** Regional ASW Command Center  
**RACKET** TESM Report of Unidentified or Potentially Hostile Emitted  
**RAD** Radar  
**RADAR** Radio Detecting and Ranging  
**RADIST** Radar Distance Navigator  
**RAP** Reliable Acoustic Path  
**RAPLOC** Rapid Passive Localization  
**RAST** Recovery Assist, Securing, and Traversing  
**RBL** Range and Bearing Launch  
**RCU** Remote Control Unit  
**RD** Recognition Differential  
**RDBMS** Raw (Acoustic) Data Base Management System  
**RDC** Remote Data Collector  
**RDSS** Rapidly Deployable Surveillance System; Remotely Deployed Sensor System  
**RDT** Rotating Directional Transmission

**REMRO** Remote Radar Operator  
**RESA** Research Evaluation and Systems Analysis  
**REWSON** Reconnaissance, Electronic Warfare, Special Operations, and Naval Intelligence Systems  
**RF** Required Function; Radio Frequency  
**RH** Radar Horizon  
**RIG** Recognition and Intelligence Groups  
**RIU** Radar Interface Unit  
**RL** Target Range at Launch  
**RMI** Radio Magnetic Indicator  
**RMS** Root Mean Squared  
**RO** Range Only  
**ROA** Radius of Action  
**ROC** Required Operational Capabilities  
**ROD** Range of the Day  
**ROE** Rules of Engagement  
**ROF** Required Operational Function  
**ROM** Read-Only Memory  
**ROMS** Remote Ocean Surface Measuring System  
**ROTH-R** Relocatable Over-the-Horizon Radar  
**ROU** Radius of Uncertainty  
**RT** Realtime  
**RTDC** Rocket Thrown Depth Charge  
**RTSP** Real Time Signal Processor

## S

**SA** Spectrum Analyzer; Surface to Air  
**SAC** Scene-of-Action Commander; Strategic Air Command  
**SACC** Shore Antisubmarine Warfare Command Center  
**SAD** Submarine Anomaly Distribution  
**SADR** Secure Acoustic Data Relay  
**SADS** Submarine Active Detection System  
**SAG** Surface Action Group  
**SAM** Surface-to-Air Missile  
**SAOCS** Submarine/Air Optical Communication System  
**SAR** Search and Rescue  
**SASP** Single Advanced Signal Processor  
**SAT** Site Acceptance Test  
**SATCOM** Satellite Communications  
**SAU** Search/Attack Unit

**SAWS** Submarine Acoustic Warfare System  
**SC** Screen Coordinator  
**SCAM** Subsonic Cruise Armed Missile/Decoy  
**SCAT** Surveillance, Communication, ASMD Warning, and Targeting  
**SCI** Ship Controlled Intercept (Radar); Sensitive Compartmented Information  
**SCC** Spare Computer Channel  
**SCDO** Surface Channel Display Operator  
**SCM** Semiconductor Module  
**SC/PPU** System Controller/Post-Processor Unit  
**SDC** Signal Data Converter; Sonar Data Computer  
**SDDP** Shipboard Display Data Processor  
**SDP** Shipboard Data Processor  
**SDR** Signal Data Recorder; Surface Duct Receiver  
**SDR/RS** Signal Data Recorder/Reproducer Set  
**SDS** Surveillance Direction System  
**SD/T** Surface Detector/Tracker  
**SE** Signal Excess  
**SEAMIX** Sea Control Force Mix Study  
**SEAS** Surveillance Environmental Acoustic Support  
**SEATAC** Sea Control Tactical Effectiveness Study  
**SEC** Submarine Element Coordinator  
**SELOP** Ship Emitter Location Report  
**SES** Ship-Based Electronics Subsystem  
**SETAD** Secure Electronic Transmission of Acoustic Data  
**SF** Sonobuoy Frequency  
**SHAREM** Ship ASW Readiness/Effectiveness Measurement  
**SHARPS** Ship-Helicopter Acoustic Range Prediction System  
**SHF** Super-High Frequency  
**SHP** Shaft Horsepower  
**SI** Sensitive Information; Special Intelligence; Signal Interference  
**SIAS** Submarine Integrated Antenna System  
**SID** Software Interface Document  
**SIGINT** Signal Intelligence

**SIGSEC** Signature Security  
**SIM** Submarine Intended Movement  
**SIMAS** Sonar In Situ Mode Assessment System  
**SINS** Sensor Interface Unit; Ships Inertial Navigation System  
**SIRCS** Shipboard Intermediate Range Combat System  
**SITREP** Situation Report  
**SIU** Sensor Interface Unit  
**SKUNK** Surface Contact Known or Assumed to be Enemy  
**SL** Source Level  
**SLAM** Short LOFAR Alerting Message  
**SLAT** Surface-Launched Air Targeted Missile  
**SLATE** Submarine-Launched Air Targeted Missile  
**SLCM** Submarine-Launched Cruise Missile  
**SLCR** Software Level Change Request  
**SLD** Sonic Layer Depth  
**SLMM** Submarine-Launched Mobile Mine  
**SLOC** Sea Line of Communication  
**SLOT** Submarine-Launched, One-Way Tactical (Buoy)  
**SLT** Sonobuoy Launch Tube  
**S/N** Signal/Noise  
**SNR** Signal-to-Noise Ratio  
**SO** Sensor Operator  
**SOA** Speed of Advance  
**SOCC** Submarine Operations Control Center  
**SODL** Submarine Operational Data Link  
**SOE** Summary of Engagements  
**SOFAR** Sound Fixing and Ranging  
**SOP** System Operational Procedure  
**SOSEX** SOSUS Exercise  
**SOSS** Soviet Ocean Surveillance System  
**SOSUS** Sound Surveillance Underwater System  
**SOTA** Surveillance Oceanographic Towed Array  
**SP** Sound-Powered  
**SPA** SOSUS Probability Area  
**SPARS** System for the Prediction of Acoustic Response of Sensors

**SPASM** Sensor Platform Analytic Scenario Model  
**SPAWARSSYSCOM** Space and Naval Warfare Systems Command  
**SPEAR** Signal Processing, Evaluation, Alert and Reporting  
**SPIE** Ship Precise Identification by Emitter  
**SPL** Sound Pressure Level  
**SPZ** Submarine Patrol Zone  
**SRL** Sonobuoy Receiver Logic  
**SRP** Sonobuoy Reference Positioning (Equipment)  
**SRS** Sonobuoy Reference System  
**SRX** Sonobuoy Receiver  
**SS** Submarine (Attack); Sensor Station  
**SSAN** Auxiliary Nuclear Submarine  
**SSAP** Submarine Sonar Adaptive Processor  
**SSATS** Surface Ship Acoustic Tactical System (SQR-891)  
**SSB** Ballistic Missile Submarine  
**SSBN** Ballistic Missile Submarine (Nuclear)  
**SSES** Ships Signal Exploitation System  
**SSG** Guided Missile Submarine  
**SSGN** Guided Missile Submarine (Nuclear)  
**SSGNX** Future Guided Missile Submarine (Nuclear)  
**SSGX** Future Submarine Guided Missile  
**SSIP** Submarine Sonar Improvement Program  
**SSIXS** Submarine Satellite Information Exchange Subsystem  
**SSK** Killer Submarine (ASW)  
**SSM** Surface-to-Surface Missile  
**SSMG** Ship Service Motor Generator  
**SSN** Nuclear Attack Submarine  
**SSN(DS)** Nuclear Attack Submarine in Direct Support  
**SSP** Sound Speed Profile; Shipboard Signal Processor  
**SSPCP** Shipboard Signal Processor Computer Program  
**SSPS** Sonar Signal Processing System  
**SSS** Surface, Subsurface Surveillance; Strategic Satellite System

**SSSC** Surface/Subsurface Surveillance Coordinator  
**SST** Sea Surface Temperature  
**SSTD** Surface Ship Torpedo Defense  
**SSTG** Ship Service Turbo Generator  
**SSWC** Surface, Subsurface Warfare Coordinator  
**SSXBT** Submarine Expendable Bathythermograph  
**STA** Short Time Averaged  
**STANAG** Standard NATO Guidelines  
**STASS** Submarine Towed-Array Sonar System  
**STDL** Submarine Tactical Data Link  
**STIC** Surveillance Test and Integration Center  
**STIZ** Submarine Transit Identification Zone  
**STOL** Short Takeoff and Landing  
**STR** Software Trouble Report  
**STS** Ship to Shore; Satellite Tracking System  
**STT** Shore Targeting Terminal  
**STW** Strike Warfare  
**STWC** Strike Warfare Commander  
**SUBACS** Submarine Advanced Combat System  
**SUBASWEX** Submarine ASW Exercise  
**SUBNOTE** Submarine Notice  
**SUBOPAETH** Submarine Operating Authority  
**SUBRAP** Submarine Sonar Range Prediction System  
**SUBROC** Submarine-Launched Antisubmarine Rocket  
**SUBSAM** Subsurface-to-Air Missile  
**SUBTYP** Submarine Type  
**SURTASS** Surveillance Towed-Array Sensor System; Surface Towed-Array Sonar System  
**SURTOPS** Surveillance Training and Operating Procedures Standardization  
**SUS** Sound Underwater Signals  
**SUW** Surface Warfare  
**SUWC** Surface Warfare Coordinator  
**S&V** Survivability and Vulnerability  
**SVCS** Secure Voice Communications System  
**SVP** Sound Velocity Profile

**SVTT** Surface Vessel Torpedo Tube  
**SW** Switch, Short Wave  
**SWATS** Shallow Water Acoustic Track System  
**SWC** Ship Weapon Coordinator  
**SWO** Surface Watch Officer  
**SWOP** Special Weapons Ordinance Publication  
**SWRT** Sound Wave Ray Track  
**SWS** Strategic Weapons System  
**SZ** Surface Zero

## T

**TABP** Towed-Array Broadband Processing  
**TAC** Tactical, Tactical Air Coordinator  
**TACAIR** Tactical Air  
**TACAIRPOD** Tactical Aircraft ASW Pod  
**TACAN** Tactical Air Navigation  
**TACC** Tactical Air Command Center  
**TACCO** Tactical Coordinator  
**TACCOM** Tactical Communications  
**TAC D&E** Tactical Development and Evaluation  
**TACEVAL** Tactical Evaluator  
**TACINTEL** Tactical Intelligence  
**TACNAV** Tactical Navigation  
**TACNUC** Tactical Nuclear Weapon  
**TACO** Tactical Coordinator  
**TACRAPS** Tactical Range Prediction System  
**TACSATCOM** Tactical Satellite Communication  
**TACTAS** Tactical Towed-Array Sonar  
**TADCOM** Tactical Air Data Communications Link  
**TADIL** Tactical Digital Information Link  
**TADIXS** Tactical Automated Data Information; Exchange Subsystem  
**TAEAS** Tactical ASW Environmental Acoustic Support  
**TAG** Tactical Analysis Group  
  
**T-AGOS** Auxiliary Ocean Surveillance Ship  
**TAO** Tactical Action Officer  
**TAP** Transient Acoustic Processor  
**TART** Tartar (Missile)



**TASDA** Tactical Airborne Sonar Decision Aid  
**TASM** TOMAHAWK Antiship Missile  
**TASS** Towed-Array Surveillance System  
**TASSRAP** TASS Range Prediction System  
**TBR** Time Bearing Recorder  
**TC3** Tactical Command, Control, and Communications  
**TCG** Time Code Generator  
**TCM** Torpedo Countermeasure  
**TCP** Torpedo Control Panel  
**TCP/IP** Transmission Control Protocol/Internet Protocol  
**TDA** Tactical Decision Aid; Torpedo Danger Area  
**TDB** Tactical Data Base or Track Data Base  
**TDBMS** Textual Data Base Management System  
**TDD** Target Detection Device; Tactical Data Display  
**TDI** Target Doppler Indicator  
**TDP** Target Data Processor  
**TDS** Tactical Display System  
**TDT** Target Designation Transmitter  
**TDZ** Torpedo Danger Zone  
**TELCOM** Telemetered Communications  
**TERCOM** Terrain Contour Matching  
**TESS** Tactical Environmental Support System  
**TEXAS** Tactical Exchange Automation System  
**TF/TG** Task Force/Task Group  
**TFCC** Tactical Flag Command Center  
**TFR** Test Failure Report  
**TGT** Targeting  
**TH** True Heading  
**TIDU** Tagged Input Data Unit  
**TIF** Threat Importance Factor  
**TLAM** TOMAHAWK Land Attack Missile  
**TLCF** TACINTEL (Tactical Intelligence) Link Control Facility  
**TLR** Top-Level Requirements  
**TLS** Top-Level Specifications  
**TLTA** Thin-Line Towed Array  
**TLWR** Top-Level Warfare Requirements  
**TMA** Target Motion Analysis  
**TMP** Tactical Mission Program

**TMT** Total Mission Time  
**TOE** Time of Event  
**TOR** Tactical Operational Requirement; Test Observation Report  
**TPA** TASS Probability Area  
**TPO** Tracking Petty Officer  
**TPK** Turns per Knot  
**TR** Trouble Report  
**T/R** Transceiver; Transmit-Receive  
**TRAM** Target Recognition Attack Multisensor  
**TRIASP** Triple Advanced Signal Processor  
**TRP** Threat Recognition Processor  
**TS** Target Strength  
**TSAM** TARTAR, TERRIER, or TALOS Surface-to-Air Missile  
**TSC** Tactical Support Center  
**TSCTN** TSC Track Number  
**TSCIIXS** Tactical Support Center Information Exchange Subsystem  
**TSES** Tactical Signals Exploitation System  
**TSP** Torpedo Setting Panel  
**TSR** Tactical Sonar Range  
**TSS** Tactical Surveillance System  
**TSTS** TOMAHAWK System Test Set  
**TTC** Tape Transport Cartridge; Target Tracking Console  
**TTCO** Target Tracking Console Operator  
**TTY** Teletypewriter

## U

**UAV** Unmanned Air Vehicle  
**UB** Underwater Battery  
**UBFC** Underwater Battery Fire Control  
**UBFCS** Underwater Battery Fire Control System  
**UBS** Underwater Battery Supervisor  
**UCLIPS** Upgraded Calculator Link Information Processing System  
**UCP** Universal Communications Processor  
**UFCS** Underwater Fire Control System  
**UFCSO** Underwater Fire Control System Officer  
**UHF** Ultrahigh Frequency (300-3000 MHz)  
**UHFSATCOM** Ultrahigh Frequency Satellite Communications  
**UKL** Universal Keypad Logic

**UNODIR** Unless Otherwise Directed  
**UNREP** Underway Replenishment  
**UPS** Uninterrupted Power Source  
**UQC** Underwater Telephone  
**URG** Underway Replenishment Group  
**URNH** Soviet Union Naval, Hostile  
**USAF** United States Air Force  
**USB** Upper Sideband  
**USMC** United States Marine Corps  
**USW** Undersea Warfare  
**UTTAS** Utility Tactical Transport Aircraft System  
**UVC** Underwater Voice Communications  
**UWC** Underwater Communications

## V

**VDS** Variable Depth Sonar  
**VDAS** Vernier DIFAR Acoustic System  
**VDL** Video Data Link  
**VDR** Variable Depression Receiver  
**VDS** Variable Depth Sonar  
**VDT** Variable Depression Transmission  
**VECTAC** Vectored Attack  
**VERTREP** Vertical Replenishment  
**VET** Target Mean Velocity East  
**VF** Fighter Aircraft  
**VHF** Very High Frequency  
**VIM** Vibration Isolation Module  
**VIP** Visual Image Processor  
**VLA** Vertical Launch ASROC  
**VLAD** Vertical Line Array Directional Low-Frequency Analysis and Recording (DIFAR)  
**VLF** Very Low Frequency  
**VLR** Very Long Range  
**VLS** Vertical Launch System  
**VMAP** Variable Mission Aircraft Platform  
**VNT** Target Mean Velocity North  
**VOD** Vertical On-Board Delivery  
**VOR** Very High Frequency Omnidirectional  
**VP** Fixed-Wing, Land-Based ASW Aircraft  
**VQ** Fleet Air Reconnaissance Squadron  
**VRD** Visual Recognition Differential  
**VS** Fixed-Wing, Sea-Based ASW Aircraft  
**V/STOL** Vertical/Short Takeoff and Landing  
**VTOL** Vertical Takeoff and Landing

## W

**WAA** Wide-Aperture Array  
**WAP** Wideband Acoustic Processor  
**WAS** War at Sea  
**WB** Wideband  
**WBAR** Wideband Acoustic Recall  
**WBGATE** Wideband Local Area Network Gateway  
**WBLAN** Wideband Local Area Network  
**WCC** Weapon Control Console  
**WCP** Weapon Control Panel  
**WDC** Weapon Data Converter  
**WDE** Weapon Direction Equipment  
**WDI** Weapon Delivery Impairment  
**WDS** Weapon Direction System  
**WEC** Weapon Engagement Coordinator  
**WF** Waterfall  
**WFAD** Wide-Frequency Analyzer and Display  
**WH** Warhead  
**WIF** Weapon Interface Function  
**WLC** Weapons Launch Console  
**WMP** Weapon Monitor Panel  
**WNINTEL** Warning Notice-Intelligence Sources and Methods Involved  
**WRA** Weapon Replacement Assembly  
**WRKSTN** Advanced Surveillance Workstation  
**WS** Weapon System  
**WSAT** Weapon System Accuracy Trials  
**WSEF** Weapons System Effectiveness Factor  
**WSIG** Weapons Support Improvement Group  
**WSIP** Weapons Support Improvement Program  
**WSPD** Weapons System Planning Data  
**WSS** Warfare Support System  
**WWMCCS** Worldwide Military Command and Control System

## X

**XLATE** Translate

# REPORT DOCUMENTATION PAGE

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