United States Naval Aviation

1910-2010

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ISBN 978-0-945274-86-5

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1910-2010

Volume II Statistics

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Naval History and Heritage Command Department of the Navy Washington, D.C.

${\bf Library\ of\ Congress\ Cataloging\hbox{-}in\hbox{-}Publication\ Data}$

Evans, Mark L.

United States naval aviation 1910-2010 / Mark L. Evans, Roy A. Grossnick. -- 5th ed.

pages cm

Includes index.

ISBN 978-0-945274-86-5 (v. 1 : alk. paper) 1. United States.

Navy--Aviation. 2. United States. Navy--Aviation--Chronology. I. Grossnick, Roy A. II. Naval History & Heritage Command (U.S.) III. Title.

VG93.E95 2015 359.9'409730904--dc23

2015002942

For sale by the U.S. Government Publishing Office Superintendent of Documents, Mail Stop: SSOP, Washington, DC 20402-9328 ISBN 978-0-945274-86-5

Contents

Preface		vii
Acknowledgments	s	ix
Glossary		xi
Part I: Aircraft		
Chapter 1	Aircraft Designations and Popular Names	1
Chapter 2	Combat Aircraft Procured	59
Chapter 3	Transport and Training Aircraft Procured	75
Chapter 4	Helicopters and Tiltrotor V/STOL Aircraft Procured	79
Chapter 5	Drones and Missiles Procured	83
Chapter 6	Aircraft on Hand	93
Chapter 7	Naval Aircraft Bureau (Serial) Numbers	97
Part II: Personnel		
Chapter 8	History of the Naval Aviator and Designations and Numbers	189
Chapter 9	Evolution of Naval Wings (Breast Insignia)	209
Chapter 10	Aviation Ratings	223
Chapter 11	Aviation Personnel on Active Duty	233
Chapter 12	Medal of Honor Awards in Naval Aviation	237
Chapter 13	U.S. Navy and Marine Corps Aces	241
Chapter 14	Early Naval Jet Pilots	247
Chapter 15	Early Helicopter Pilots	261
Chapter 16	Naval Astronauts	269
Chapter 17	Naval Aviation Hall of Honor	277
Chapter 18	Gray Eagle Award	281
Chapter 19	Honorary Naval Aviator Designations	283
Chapter 20	Navy and Marine Corps Air Stations and Fields Named for Aviators	285
Part III: Units		
Chapter 21	Aviation Commands	293
Chapter 22	Evolution of Carrier Air Groups and Wings	299
Chapter 23	Squadron Designations and Abbreviations	315
Chapter 24	Current Squadron Lineage	323
Chapter 25	Visual Identification System (Tail Codes)	333

Part IV: Ships		
Chapter 26	Aviation Ships	341
Chapter 27	Ships Named for Naval Aviators	361
Part V: Deployme	ents	
Chapter 28	Post–World War II Carrier Deployments by Year	367
Chapter 29	Post-Korean War Amphibious Assault Ship Deployments by Year	393
Chapter 30	Carrier and Squadron Deployments During the Korean War	405
Chapter 31	Carrier and Squadron Deployments to Vietnam	415
Part VI: Operation	ns	
Chapter 32	Grenada Combat Operations	439
Chapter 33	Squadrons Involved in Libyan Operations	441
Chapter 34	Operation Desert Shield and Desert Storm	443
Chapter 35	Operation Desert Fox	453
Chapter 36	Operation Enduring Freedom Phase I	455
Chapter 37	Operation Iraqi Freedom Phase I	457
Part VII: Other A	ctions	
Chapter 38	Navy and Marine Corps Shoot Downs Since 1950	461
Chapter 39	Cold War Incidents Involving U.S. Navy Aircraft	467

Preface

Naval aviation has celebrated more than 100 years of service to this country. Its story as told in this volume and its companion, the chronology, had its origins in the 1950s. This is the fifth update to the original book, *United States Naval Aviation 1910–1960*, and due to the extensive role naval aviation has played in its country's history, the book is published in two volumes.

This volume provides invaluable facts, figures, and a compilation of data not suitable for a chronological approach. When *United States Naval Aviation 1910–1995* was published, the appendix section had more than doubled in size from the previous edition. Many statistical facts and compilations frequently requested of naval aviation historians were incorporated into that book. The current work further expands the number of chapters. It provides the researcher, Navy study groups, statistical analysis groups, and anyone interested in the topic a more detailed account of specific subjects pertinent to better understanding its history.

To facilitate a better grasp of the various subjects, the chapters have been divided into seven sections covering aircraft, personnel, units, ships, deployments, operations, and other actions. Personnel are key to naval aviation's success, closely followed by technological developments. There are many different functions within naval aviation; this volume attempts to document the multiple aspects, including operational activities, administrative and personnel changes, and the technical evolutions that have kept it in the forefront of the United States' military role in the world.

Compiling statistical information requires the historian to search a very wide range of sources. Over the past 15 years many of those reliable sources have ceased to exist. This drying up of sources resulted when specialized documents were no longer published or compiled within the Navy and from the trend toward computerized data not being maintained or transferred to the Naval History and Heritage Command archives. An exhaustive effort was made to find all possible sources necessary to compile the information presented in these chapters. When records provided conflicting data, I selected the most accurate information after reviewing all possible sources. Professional standards were paramount when conducting this research.

Special recognition is made to the naval aviation historians preceding me who were instrumental in researching and publishing the previous editions of this book: Mr. Adrian O. Van Wyen, Mr. Lee M. Pearson, Dr. William J. Armstrong, and Mr. Clarke Van Vleet. As primary compiler for these chapters, I am fully responsible for any errors of fact or mistakes that may have occurred in this volume.

ROY A. GROSSNICKNaval Aviation Historian

Acknowledgments

This centennial update of United States Naval Aviation would not be possible without the previous editions covering the periods 1910–1960, 1910–1970, 1910–1980, and 1910–1995. The dedication and professionalism of the authors of these original editions—Adrian O. Van Wyen, Lee M. Pearson, Clarke Van Vleet, Dr. William J. Armstrong, and Major John M. Elliott, USMC (Ret.)—laid the foundation for this new version.

In addition, the extensive revisions and updates to the previous versions' appendices would not have been possible without the generous support of the Naval Historical Foundation. Updating of this primary reference work on naval aviation was facilitated by a generous donation from former CNO Admiral James L. Holloway III, USN (Ret.). His donation to the Naval Historical Foundation enabled an aviation historian to research, write, and update all the chapters of volume II. The Naval Historical Foundation then gifted the completed text to the Naval History and Heritage Command.

A project of this magnitude requires the work of many people. The authors owe a debt of gratitude to historians Dr. Michael J. Crawford, Dr. Timothy L. Francis, Dr. Jeffrey G. Barlow, Dr. Robert J. Schneller Jr., Dr. John D. Sherwood, and Robert J. Cressman of the Naval History and Heritage Command who reviewed chapter manuscripts. Their subject matter expertise, insight, and exacting verification of salient points ensured the historical accuracy and the development of cogent themes.

Additional people outside the command generously reviewed chapter manuscripts. Vice Adm. Robert F. Dunn, USN (Ret.) of the Naval Historical Foundation; Maj. Elliott; Dr. Sarandis Papadopoulos, Secretariat Historian, Department of the Navy; Capt. Edmund T. Wooldridge, USN (Ret.); and Capt. Rosario M. Rausa, USNR (Ret.) examined the voluminous material and provided critical objectivity and analysis.

Other members of the command played a key role by researching information or by providing their extensive background knowledge in specific areas. The then Head, Archives Branch Curtis A. Utz and archivists Dale J. Gordon and John L. Hodges provided an incalculable wealth of specific knowledge of naval aviation and archival sources.

Historian Dr. Regina T. Akers of the command contributed her unparalleled knowledge of diversity issues to ensure a balanced representation of the people who comprise the rich heritage of naval aviation. Then-Art Director Morgan I. Wilbur cheerfully disregarded the repeated interruptions to help with the accurate and comprehensive selection of images. Librarians Glenn E. Helm, A. Davis Elliott, J. Allen Knechtmann, and Linda J. Edwards provided crucial, enthusiastic, and knowledgeable reference support. Former photographic curator Robert Hanshew offered technical expertise that enabled the timely processing of the numerous photographic images.

The extent of the material involved required the assistance of additional people outside the command. Historian and consultant Harold Andrews was an indispensable technical expert, and his lifetime of experience and attentive character facilitated the compilation of multiple entries. Marine Corps historian Annette D. Amerman and Coast Guard historian Scott Price consistently offered immediate and vital assistance. William C. Booth of Aircraft Inventory N8812A provided indispensable support.

A special acknowledgment goes to editors Wendy Sauvageot, James M. Caiella, and Caitlin Conway of the Naval History and Heritage Command. Their keen professionalism, diligent attention to detail, and unique combination of naval aviation knowledge and matchless editorial skills proved invaluable, and every page bears their legacy.

Because an index is the key to making this book a successful reference document, the final thanks go to those who helped with it: Cmdr. Austin W. O'Toole, USNR; Cmdr. Ronald B. Mitchell, USNR (Fleet Historian, Undersea Warfare Operations Det. D); and Byron W. Hurst, Communication and Outreach Division, NHHC.

Glossary

1st MAW 6th FLT	First Marine Aircraft Wing Sixth Fleet	ALARS	air-launched acoustical reconnaissance
7th FLT	Seventh Fleet	ALM	Antilliaanse Luchtvaart Maatschappij (airline)
A&R	Assembly & Repair	ALNAV	All Navy
A.P.	armor piercing	ALVRJ	advanced low volume
AAF	United States Army Air Forces		ramjet
AAM	air-to-air missile	AMD	aeronautical maintenance duty
AARGM	Advanced Anti-Radiation	AMO	aviation medical officer
AAS	Guided Missile United States Army Air	AMRAAM	advanced medium range air-to-air missile
	Service	ANA	Association of Naval
ABATU	advanced base training unit		Aviation
ABDA	American-British-Dutch- Australian Command	ANG	Air National Guard
ACC	Air Combat Command	AOCP	aviation officer continuation pay
ACLS	automatic carrier landing system	AOCS	aviation officer candidate school
ACMR	Air Combat Maneuvering Range	ARAPHAHO	merchant ship portable modular aviation facility
ACNO	Assistant Chief of Naval	ARG	amphibious ready group
AOD	Operations	ARM	antiradiation missile
ACP	aviation continuation pay	Arowa	Applied Research:
ADVCAP	advanced capability		Operational Weather Analysis
AED	Aeronautical Engineering Duty	ARPA	Advanced Research
AEDO	Aeronautical Engineering	ARPS	Projects Agency
	Duty Officer		automatic radar processing
Aéronautique Militaire	Army Air Service (France)	A C	system
AESR	active electronically scanned radar	ASM	air-to-surface missile
AEW	airborne early warning	ASMD ASO	antiship missile defense
AEWWINGPAC	Airborne Early Warning		aviation supply office
/ LVVVII VOI / LO	Wing, Pacific	ASR ASROC	antisubmarine rocket
AFB	Air Force base		Anti-Submarine Rocket
AIM	aircraft intermediate maintenance	ASTOVL	advanced short takeoff/ vertical landing
AIM	air-launched aerial intercept	ASV	surface vessel detection
7 (114)	guided missile	ASW	antisubmarine warfare
AIMD	Aircraft Intermediate Maintenance Division	ATARS	Advanced Tactical Airborne Reconnaissance System
AirDet/AIR DET	air detachment	ATC	Air Transport Command
AirLant/AIRLANT	Air Force, Atlantic Fleet or Commander, Air Force, U.S. Atlantic Fleet	ATFLIR	advanced targeting forward looking infrared
		ATG	air task group
AirPac/AIRPAC	Air Force, Pacific Fleet or Commander, Air Force, U.S. Pacific Fleet	ATS	Air Transport Service
		ATU	advanced training unit
		AVG	American Volunteer Group

AWACS	airborne warning and	CNATRA	Chief of Naval Air Training
BAMS	control systems Broad Area Maritime	CNATT	Center for Naval Aviation Technical Training
	Surveillance	CNO	Chief of Naval Operations
BAMS-D	Broad Area Maritime Surveillance Demonstrator	CNR	Chief of Naval Research
BRAC	Defense Base Closure and	COD	carrier on-board delivery
DI I/ (O	Realignment	COIN	counter insurgency
BTG	basic training group	ComAirLant	Commander, Naval Air
BuAer	Bureau of Aeronautics		Force, U.S. Atlantic Fleet
BuC&R	Bureau of Construction and Repair	ComAirPac	Commander, Naval Air Force,
BuMed	Bureau of Medicine		U.S. Pacific Fleet
BuNav	Bureau of Navigation	ComFAIR/COMFAIR	Commander, Fleet Air
BuOrd	Bureau of Ordnance	COMHATWING	Commander, Heavy Attack
BuPers	Bureau of Naval Personnel		Wing
BuShips	Bureau of Ships	COMHSLWINGPAC	Commander, Helicopter Antisubmarine Light Wing,
BuWeps	Bureau of Naval Weapons		U.S. Pacific Fleet
CAA	Civil Aeronautics Administration	COMINCH	Commander in Chief, U.S. Fleet
CAA	Civil Aeronautics Authority	COMINCUS	Commander in Chief, U.S.
CAEWWS	Carrier Airborne Early Warning Weapons School	COMLATWING	Fleet Commander, Light Attack
CAINS	carrier aircraft inertial		Wing
CalTech	navigation system California Institute of	COMMATWING	Commander, Medium Attack Wing
CAP	Technology Civil Air Patrol	COMNAVAIRESFOR	Commander, Naval Air Reserve Force
CAP	combat air patrol	COMNAVAIRLANT	Commander, Naval Air
CARDIV	carrier division		Force,
CASU	carrier aircraft service unit	COMNAVAIRPAC	U.S. Atlantic Fleet
CASU(F)	combat aircraft service unit (forward)	COMINAVAIRPAC	Commander, Naval Air Force, U.S. Pacific Fleet
CC	Construction Corps	COMNAVELEX	Naval Electronic Systems
CCR	circulation control rotor		Command
CEC	cooperative engagement capability	COMNAVFOR Somalia	Commander, Naval Forces Somalia
CG	commanding general	COMNAVSUPFOR	Commander, Naval
CGAS	Coast Guard Air Station	COMOPDEVFOR	Support Force Commander, Operational
CHNAVRSCH	Chief of Naval Research	COMOPDEVFOR	Development Force, U.S.
CIA	Central Intelligence Agency		Fleet
CIC	combat information center	COMPATWING	Commander, Patrol Wing
CincPac/CINCPAC	Commander in Chief, Pacific	COMSTRKFIGHTWING	Commander, Strike Fighter Wing
CincPacFlt/CINCPACFLT	*	CONUS	Continental United States
	Pacific Fleet	CTF	Combined Task Force
CINCUS	Commander in Chief, U.S. Fleet	DARPA	Defense Advanced Research Projects Agency
CIWS	Close-In Weapons System (Phalanx)	DASH	Drone Anti-Submarine Helicopter
CJTF	Combined Joint Task Force		

DCNO	Deputy Chief of Naval Operations	FLIR	forward looking infrared radar
DEW	Distant Early Warning line	FMS	foreign military sales
DICASS	directional command active sonobuoy system	FOB	forward operating base
DIFAR	directional frequency	FORSCOM	Forces Command
DII AN	analysis and recording	FROG	free rocket over ground
DMZ	demilitarized zone	FTEG	Flight Test and Engineering Group
DOD	Department of Defense	FY	fiscal year
DODGE	Department of Defense Gravity Experiment satellite	G.P.	general purpose
EALS	Electromagnetic Aircraft Launch System	GBU GCA	guided bomb unit ground-controlled
ECM	electronic countermeasures		approach
ECMO	electronic countermeasures	Glomb	guided glider bomb
	operator/officer	GMGRU	guided missile group
ECP	Enlisted Commissioning	GMU	guided missile unit
FDO.	Program	Halon	fire suppression agent
EDO EFM	engineering duty officer enhanced fighter	HARM	High Speed Anti-Radiation Missile
	maneuverability	HATWING	heavy attack wing
ELEX	Naval Electronic Systems Command	HIPEG	high-performance external gun
EOD	explosive ordnance	HTA	heavier-than-air
	disposal	HUD	heads-up display
ESG EW	expeditionary strike group electronic warfare	Huff-Duff	high frequency direction- finder
EXCAP	expanded (extended) capability	HVAR	High-Velocity Aircraft Rocket
FAA	Federal Aviation Administration	IBM	International Business Machine Company
FAA	Fleet Air Arm	ICAP	improved capability
FAB	Fleet Air Base	IFF	identification friend or foe
FAC	Federal Aviation Commission	IGY	International Geophysical Year
FAC	forward air controller	IO	Indian Ocean
FAETU	fleet airborne electronics	IOC	initial operational capability
	training unit	IR	imaging infrared
FARP	forward arming and refueling point	IR	infrared
FASOTRAGRULANT	Fleet Airborne Specialized Operational Training Group	ITALD	Improved Tactical Air Launched Decoy
	Atlantic	JAGM	Joint Air-to-Ground Missile
FAW	fleet air wing	JASSM	Joint Air-to-Surface
FAWTUPAC	Fleet All Weather Training Unit, Pacific	JATO	Standoff Missile jet-assisted takeoff
FBM	fleet ballistic missile	JCM	joint common missile
FEMA	Federal Emergency	JCS	Joint Chiefs of Staff
	Management Agency	JDAM	Joint Direct Attack Munition
FEWSG	Fleet Electronic Warfare Support Group	JPALS	Joint Precision Approach and Landing System
FKR	frontoviye krilatiye raketi (frontal rocket)		and Landing Oyolom

JPATS	Joint Primary Aircraft Training System	MCB	Marine Corps Base
JRB	joint reserve base	MCM	mine countermeasures
JRFB	ioint reserve force base	MEB	Marine Expeditionary Brigade
JSF	joint strike fighter	Med	Mediterranean Sea
JSOW	joint standoff weapon	MEF	Marine Expeditionary Force
JSTARS	Joint Surveillance Target	MEU	Marine Expeditionary Unit
00171110	Attack Radar System	MIA	missing in action
KIA	killed in action	MiG	Russian aircraft designed
LAMPS	Light Airborne Multipurpose System	WIIG	by Artem I. Mikoyan and Mikhail I. Gurevich
Lant/LANT	Atlantic	MIO	maritime interception
LANTIRN	low altitude navigation/ targeting infrared for night	MIRALC/SLBD	operations mid-infrared advanced
Laser-JDAM	Laser-Joint Direct Attack Munition		chemical laser/Sea Lite Beam Director
LCAC	landing craft, air cushion	MIT	Massachusetts Institute of Technology
LCS	littoral combat ship	MLS	microwave landing system
LDO	limited duty officer	MMA	multimission maritime
LGB	laser-guided bomb		aircraft
LIC	low intensity conflict	MOL	Manned Orbiting
LJDAM	Laser Joint Direct Attack Munition	MOUT	Laboratory military operations in urban
Lofti	Low Frequency Transionospheric satellite	MRASM	terrain
LORAN	Long Range Navigation	IVICADIVI	medium range air-to- surface missile
LRAACA	Long-Range Air	MRBM	medium range ballistic
	Antisubmarine Warfare Capable Aircraft	MRC	missile major regional conflict
LSO	landing signal officer	MSC	Military Sealift Command
LTA	lighter-than-air	MSO	maritime security
LTV	Ling-Temco-Vought Corp.		operations
MAC	Military Airlift Command	NAA	National Aeronautic
MACV	Military Assistance	NIA A 🗆	Association
	Command, Vietnam	NAAF	Naval Air Auxiliary Facility
MAD	magnetic airborne/anomaly detection	NAAS	Naval Air Advanced Training
MAG	Marine Aircraft Group	NAATSC	Naval Air Advanced Training Subordinate Command
MAGTF	Marine Air-Ground Task	NAB	Naval Air Base
	Force	NACA	National Advisory
MATS	Military Air Transport		Committee for Aeronautics
	Service	NAD	Naval Aviation Depot
MAU	master augmentation unit	NADC	Naval Air Development Center
MAW	Marine Aircraft Wing	NADEP	
MAWSPAC	Medium Attack Weapons School, Pacific	NADS	Naval Aviation Depot Naval Air Development
MC	Medical Corps		Station
MCAAS	Marine Corps Auxiliary Air Station	NAEC	Naval Air Engineering Center
MCAF	Marine Corps Air Facility	NAESU	Naval Aviation Electronic
MCAS	Marine Corps Air Station		Service Unit

NAF	Naval Air Facility	NAVCAD	naval aviation cadet
NAF	Naval Aircraft Factory	NAVICP	Naval Inventory Control
NAFC	Naval Air Ferry Command	10.0101	Point
NAILS	Naval Aviation Integrated	NAVMAT	Naval Material Command
NALCOLANTUNIT	Logistic Support	NAVPRO	Naval Plant Representative Office
NALGOLANTONII	Naval Air Logistics Control Office, Atlantic Unit	NAVRES	Naval Reserve
NAMC	Naval Air Material Center	NAVSEA	Naval Sea Systems
NAMO	Naval Aviation Maintenance		Command
	Office	Navstar	navigation satellite
NAMTC	Naval Air Missile Test Center	NAWC NAWCAD	Naval Air Warfare Center Naval Air Warfare Center
NAO	naval aviation observer		Aircraft Division
NAOTS	Naval Aviation Ordnance Test Station	NAWCWD	Naval Air Warfare Center Weapons Division
NAP	naval aviation pilot/naval air	NAWS	Naval Air Weapons Station
	pilot	NB	Naval Base
NAR	Naval Air Reserve	NERV	Nuclear Emulsion Recovery
NARF	Naval Air Rework Facility		Vehicle
NARTS	Naval Air Rocket Test Station	NFO	naval flight officer
NARTU		NMC	Naval Material Command
	Naval Air Reserve Training Unit	NME	National Military Establishment
NARU	Naval Air Reserve Unit	NMF	Naval Missile Facility
NAS	Naval Aeronautic Station	NNV	national naval volunteers
NAS	Naval Air Station	NOB	Naval Operating Base
NASA	National Air and Space Administration	NORAD	North American Air Defense Command
NASM	National Air and Space	NorLant	Northern Atlantic Ocean
NIATO	Museum	NorPac	Northern Pacific Ocean
NATB	Naval Air Training Base	NOTS	Naval Aviation Ordnance
NATO	Naval Air Training Center		Test Station
NATC	Naval Air Training Command	NOTS	Naval Ordnance Test Station
NATEC	Naval Airship Training and Experimental Command	NR	Naval Reserve/Navy Reserve
NATMSACT	Naval Air Training Maintenance Support Activity	NRAB	Naval Reserve Aviation Base
NATO	North Atlantic Treaty	NRFC	Naval Reserve Flying Corps
INATO	Organization	NRL	Naval Research Laboratory
NATOPS	Naval Air Training and Operating Procedures	NROTC	Naval Reserve Officer Training Corps
	Standardization	NS	Naval Station
NATS	Naval Air Transport Service	NSA	Naval Support Activity
NATT	Naval Air Technical Training	NSAWC	Naval Strike and Air
NATTC	Naval Air Technical Training		Warfare Center
NAMATO	Center	NSC	National Security Council
NAVAIR	Naval Air Systems Command	NSRB	National Security Resources Board
NAVAIRSYSCOM	Naval Air Systems	NTPS	Naval Test Pilot School
	Command	NVG	night vision goggles

A D /A I	N	DNIAO	D
NVN	North Vietnam	RNAS	Royal Naval Air Station
NWC	Naval Weapons Center	ROK	Republic of Korea
OASU	Oceanographic Air Survey	RPG	rocket-propelled grenade
OCS	Officer Candidate School	RPV	remotely piloted vehicle
ODM	operational development model	RVN	Republic of Vietnam
ONR	Office of Naval Research	SAM	surface-to-air missile
OPNAV	Naval Operations	SAR	search-and-rescue
Ops	operations	SCS	sea control ship concept small diameter bomb
OSD	Office of the Secretary of	SDB SEAL	Sea-Air-Land team
	Defense	SEAPAC	
OSRD	Office of Scientific Research and Development		sea activated parachute automatic crew release
P/A	pilotless aircraft	SecDef/SECDEF	Secretary of Defense
Pac/PAC	Pacific	SecNav/SECNAV	Secretary of the Navy
PASU	Patrol Aircraft Service Unit	SEVENTHFLT	Seventh Fleet
Patriot	Phased Array Tracking	SIXTHFLT	Sixth Fleet
	Intercept of Target missile	SLAM	Standoff Land Attack Missile
PatSU/Patsu	Patrol Aircraft Service Unit	SLAM-ER	Standoff Land Attack
PatWing/PATWING	Patrol Wing		Missile-Expanded
PIMA	planned incremental maintenance availability	0.014	Response
PLAF	People's Liberation Armed	SLCM	Sea/Surface Launched Cruise Missile
PLAT	Forces (Viet Cong) Pilot Landing Aid Television	SLEP	Service Life Extension Program
	system	SoLant/SOLANT	Southern Atlantic Ocean
PMTC	Pacific Missile Test Center	SolRad	Solar Radiation (satellite)
POL	petroleum, oil, lubricants	SoPac/SOPAC	Southern Pacific Ocean
POW	prisoner of war	SPASUR	Navy Space Surveillance
PPI	plan position indicator		System
RAAF	Royal Australian Air Force	SSM	surface-to-surface missile
radar	radio detection and ranging	STAG	Special Task Air Group
RAF	Royal Air Force	STM	supersonic tactical missile
RAG	replacement air group	STOL	short takeoff and landing
RAM	Rolling Airframe Missile	STOVL	short takeoff/vertical
RAST	recovery assist, securing,	STRATCOM	landing
RCA	and traversing system Radio Corporation of	SWIP	Strategic Command System Weapons
NOA	America	SVVIF	Integration Program
RDT&E	research, development, test, and evaluation	SWOD	Special Weapons Ordnance Device
retrorocket ASR	rearward-firing	T&E	test and evaluation
	antisubmarine rocket	TACAMO	Take Charge and Move Out
REWSON	reconnaissance, electronic warfare, and special operations	TACAN	tactical air navigation system
RFC	Royal Flying Corps	TACELWING	Tactical Electronic Warfare
RimPac	Rim of the Pacific Exercise	TACODII	Wing
- -	(Joint)	TACGRU	tactical group
RIO	radar intercept officer	TALD	tactical air launch decoy
RN	Royal Navy		

TARPS	Tactical Aerial Reconnaissance Pod	USNR	United States Naval/Navy Reserve
TERCOM	System terrain contour matching	USNRF	United States Naval/Navy Reserve Force
TF	task force	USNS	United States Naval Ship
TG TINS	task group Thermal Imaging Navigation	V/STOL	vertical and/or short takeoff and landing
TINO	Set	VAST	versatile avionics shop test
TLAM	Tomahawk land-attack missile	VCNO	Vice Chief of Naval Operations
TOW	tube-launched, optically tracked, wire-command-	VFAX	advanced experimental fighter aircraft
TRAM	link Target Recognition Attack	Viet Cong	People's Liberation Armed Forces
	Multisensor	VOD	vertical on-board delivery
TraWing/TRAWING TRIM	Training Air Wing Trail Road Interdiction	VOR	very-high frequency omni- range direction finder
	Mission	VORTAC	very-high frequency omni-
TU TWA	task unit Trans World Airlines		range direction finder tactical air navigation
UAS	unmanned aerial systems	VSTOL	system vertical/short takeoff and
UAV	unmanned aerial vehicle	VSTOL	landing
UCAS	unmanned combat air	VT	variable-time (fuze)
LIDT	system	VTOL	vertical takeoff and landing
UDT	underwater demolition team	VTUAV	vertical takeoff and landing tactical unmanned aerial
UN	United Nations		vehicle
USA	United States Army	VTXTS	fixed-wing experimental
USAAF	United States Army Air Forces		training aircraft training system
USAAS	United States Army Air	VWS	ventilated wet suit
	Service	WAVES	Women Accepted for
USACOM	United States Atlantic Command		Volunteer Emergency Service
USAF	United States Air Force	WestPac/WESTPAC	Western Pacific Ocean
USCG	United States Coast Guard	WNY	Washington Navy Yard
USMC	United States Marine Corps	WWI	World War I
USN	United States Navy	WWII	World War II

Note: Acronyms or abbreviations for squadron designations, air groups or air wings, aviation ship designations, and aviation ratings may be found in the Vol. II appendices, as will other more specialized acronym meanings.