

THE YEAR IN REVIEW 2004

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Naval Aviation evolved in 2004 in the midst of continued daunting tasks. Operations in Iraq, Afghanistan, and across the globe also utilized community assets to execute a variety of missions. The Navy made changes in its organization and operational methods to meet the requirements of the 21st century, while Naval Aviation also improved by integrating updated equipment and new technologies.

U.S. Naval Aviation supported U.S. and coalition forces as Operation Iraqi Freedom continued. Carrier air wings (CVWs) and Marine squadrons afloat and ashore participated in operations throughout the year. During Operation Vigilant Resolve in April, Navy and Marine Corps squadrons struck insurgent and terrorist targets in Al Anbar province and several other cities. Major fighting occurred around Fallujah, but the coalition suspended the operations on 9 April to allow negotiations. The result was the formation of an Iraqi brigade to maintain stability in Fallujah, but this unit failed and the city remained an insurgent and terrorist stronghold. To bring the area under control prior to the Iraqi national elections on 30 January 2005, a new assault was planned. U.S. Marine, Navy, and Air Force



Above, a precision air strike takes out an insurgent stronghold as Marines move forward through the city of Fallujah, Iraq, during Operation Al Fajr on 10 November 2004. Photo by LCpl. Thomas D. Hudzinski. Below, an F-14B Tomcat from Fighter Squadron 103 flies over Iraq during a mission supporting Operation Iraqi Freedom on 14 August 2004. Photo by SSgt. Lee O. Tucker.

aircraft stepped up attacks on Fallujah in late October and early November. The 3rd Marine Aircraft Wing (MAW) pounded seven separate Iraqi weapons caches in just eight hours on 6 November.

Operation Phantom Fury, later redesignated Operation Al Fajr (“Dawn”), was launched on 8 November to regain control of Fallujah. Several thousand insurgents





Left, U.S. Marines with 3rd Battalion, 5th Marine Regiment, provide security for a bridge in Fallujah, Iraq, during its reopening on 14 November 2004. Below, a Marine from the 3rd Light Armored Reconnaissance Battalion provides security for a CH-53E Super Stallion near Ar Rutbar, Iraq. Photo by BU2 Michael W. Hollman. Bottom, Marines from Battalion Landing Team 1/6 are ready for action after disembarking a CH-46 Sea Knight during the initial surge of the 22nd Marine Expeditionary Unit into south central Afghanistan on 6 May 2004. Photo by Cpl. Jemssy Alvarez, Jr.

and terrorists, stiffened by religious zealots (*jihadis*) were dug into a complex of bunkers and strongholds. I Marine Expeditionary Force (MEF), supported by the Army's 1st Cavalry Division and Iraqi security forces, was quickly embroiled in some of the fiercest house-to-house fighting endured by Marines since the 1968 Vietnam battle at Hué. The low ceiling forced fixed-wing aircraft to fly lower than normal and required more helicopter involvement. The enemy took advantage of these conditions and used surface-to-air missiles, antiaircraft artillery, small arms, and rocket-propelled grenades against U.S. aircraft, but to little effect. The insurgents and terrorists repeatedly fought from mosques and hospitals, in violation of international law, and the crowded city made avoiding collateral damage to civilians all but impossible. Precision-guided munitions became crucial, and Al Fajr marked the combat debut of the GBU-38 500 pound Joint Direct Attack Munition (JDAM) when F/A-18C Hornets of Strike Fighter Squadron (VFA) 34, embarked on board *John F. Kennedy* (CV 67), dropped two against insurgents in Fallujah. The operation dealt a serious blow to opposing forces, and the liberation of the city was instrumental in paving the way for successful elections.

Naval Aviation remained engaged in active operations beyond Iraq. Operation Enduring Freedom continued, and the 22nd Marine Expeditionary Unit (Special



Operations Capable) [MEU (SOC)] deployed in March from the *Wasp* (LHD 1)-centered Expeditionary Strike Group 2 to Kandahar, Afghanistan, on board the MEU's aviation assets. Supported by elements of the 2nd MAW deployed from CONUS, the 22nd MEU(SOC) played a key role in Operation Mountain Storm, a preemptive campaign against an anticipated spring offensive by the Taliban. This operation improved the security in Oruzgan Province and paved the way for safe elections and the execution of

many civil affairs projects. Other naval aircraft operated in Afghanistan throughout 2004 and participated in maritime interception operations in the 5th Fleet area of responsibility. Naval Aviation assets also remained active in counterdrug operations in the Atlantic and the Pacific.



The Naval Aviation organization continued to evolve throughout the year. Additional fighter squadrons became strike fighter squadrons as the transition from the F-14 Tomcat to the F/A-18 Hornet/Super Hornet proceeded. The helicopter community made preparations for the massive changes that would reorganize the wings and squadrons to reflect the transition from five helicopter models to two. Commander, Fleet Forces Command, issued a realignment message on 8 September which redesignated the carrier and cruiser-destroyer groups as carrier strike groups (CSG) and placed the CSGs under numbered fleet commanders for both operational and administrative control. The reorganization further developed command organizations based on capabilities, simplified command relationships, and streamlined financial and manning responsibilities. It also provided greater flexibility in assigning units.

The Navy explored changes to operational methods with Summer Pulse '04, an exercise designed to test the Fleet Response Plan (FRP) of the Navy's Sea Power 21 strategy. Under the "six-plus-two" concept of FRP, the Navy projects power by providing six CSGs in less than 30 days for contingency operations across the globe, with two more CSGs to follow within three months to reinforce or relieve them, or to respond to other crises. From June to August 2004, *Enterprise* (CVN 65),

Above, an F/A-18F Super Hornet of Strike Fighter Squadron 102 throttles up prior to launch from *Kitty Hawk* (CV 63) on 4 August 2004. Photo by PHAN Bo J. Flannigan. Facing page, AO1 Ernest Felder of Strike Fighter Squadron 136 keeps a watchful eye during flight operations aboard *George Washington* (CVN 73) on 18 February 2004. Photo by PH1 Brien Aho.

George Washington (CVN 73), *Harry S. Truman* (CVN 75), *John C. Stennis* (CVN 74), *John F. Kennedy* (CV 67), *Kitty Hawk* (CV 63), and *Ronald Reagan* (CVN 76), along with other vessels of their strike groups, deployed near-simultaneously in five theaters. Operations included scheduled deployments, surge operations, joint

and international exercises, other advanced training, and port visits. On a smaller scale, VFA-97 became the first Navy strike fighter squadron to participate in the Marine Corps' Unit Deployment Program when it deployed to Japan in September. This is part of the tactical air integration program that also has Marine fighter attack squadrons assigned to air wings so that the Navy and the Marine Corps will be able to surge more aircraft to meet requirements either afloat or ashore.

The weather played an especially prominent role in 2004. The Atlantic hurricane season was one of the most destructive recorded to date, with nine named storms affecting the U.S. The worst, Hurricane Ivan, was a Category 3 storm that devastated southeastern states in mid-September. NAS Pensacola, Fla., endured peak wind gusts of 107 mph and a storm surge of 10 feet, causing over \$100 million in damages, with nearly 90 percent of the station's buildings suffering significant damage, though no deaths were reported there. The storm damaged 34 display aircraft on the flight line of the National

Museum of Naval Aviation, and classes at the Naval Air Technical Training Center were disrupted until 27 September. The Navy issued a stop movement order to all personnel with orders to stations in the region, which remained in effect until early December. Navy Seabees were instrumental in disaster recovery operations.

The year saw great improvements in Naval Aviation technologies. Unmanned aerial vehicle programs continued to move ahead and see greater use in operations. Ordnance developments focused on precision weapons and systems developed for joint use. The MV-22 Osprey and the EA-18G programs made great strides. Naval Aviation also pushed the development and acquisition of a variety of sensors, cockpit systems, and radars, while upgrade programs continued apace.

Naval Aviation's performance in 2004 demonstrated its vital role in the defense of the nation. Despite the challenges of weather, operations, and the changes necessary to transition into a more responsive force, Naval Aviation effectively carried out its varied and critical missions.

Note: Some data in the following chronology and charts may be incomplete because of limited accurate source material due to the failure of some squadrons and wings to file a 2004 command history in accordance with OPNAVINST 5750.12 H.

January

5 Raytheon Co. was awarded a \$139.7 million contract for production of the Joint Standoff Weapon (JSOW) for the Navy and Air Force. The contract includes 546 JSOW-As (231 for the Navy and 315 for the Air Force) and 97 JSOW-Cs (all Navy).

6 The E-2 Integrated Test Team announced it completed flight testing of the eight-bladed NP2000 propeller at NAS Patuxent River, Md., concluding developmental testing and evaluation that began in summer 2000.

7 The Navy awarded Fabrique Nationale Herstal, S.A., Belgium, a contract for the procurement of and logistical support for 136 M3M .50 caliber machine guns. The Navy configuration of the M3M system, the GAU-21, is planned to be common to all Navy and Marine Corps assault support rotary wing aircraft.

8 Lockheed Martin Corp. and Sikorsky Aircraft Corp. were awarded a \$417 million, five-year contract to provide supply support and repairs to in-service H-60 helicopters.

9 The remains of two service members missing in action from the Vietnam War were identified and returned to their families for burial. Ltjg. Robert A. Clark



and another crew member of Attack Squadron 115 were flying an A-6A Intruder, BuNo 155694, from *Midway* (CVA 41) on 10 January 1973 when their aircraft disappeared during a night mission to suppress surface-to-air missile sites near Vinh, North Vietnam. The family of the other man requested that his name not be released.

9 Maj. Gen. James F. Amos, Commanding General, 3rd MAW, flew the V-22 Osprey in both helicopter and airplane modes.

9 The frigate *McClusky* (FFG 41) and her embarked helicopter from HSL-43 Det 6 rescued 169 migrants on board the Ecuadorian vessels *The Andrea* and *San Luis*, which were foundering in the eastern Pacific.

10 *Midway* (CVA 41) arrived at her berth at Broadway Pier, San Diego, Calif., to serve as a naval museum and event facility. Commissioned on 10 September 1945, *Midway* participated in operations spanning half a century, including the Vietnam War and Operations Desert Shield and Storm, before being decommissioned on 11 April 1992.

12 The frigate *Samuel B. Roberts* (FFG 58) and Coast Guard law enforcement detachment (LEDET) 403 intercepted a suspicious vessel being tracked by the frigate's embarked helicopter from HSL-44 Det 7. The LEDET seized eight drug traffickers and recovered more than 7,000 pounds of cocaine, despite the smugglers' efforts to set their vessel afire and escape.

14 The amphibious assault ship *Boxer* (LHD 4), with aircraft and personnel from I Marine Expeditionary Force embarked, deployed in support of Operation Iraqi Freedom, arriving on station in the Arabian Gulf on 20 February. *Boxer* returned on 29 April.

17 The destroyer *Halsey* (DDG 97) was christened at Northrop Grumman Ship Systems, Pascagoula, Miss. She was the second ship to be named in honor of Fleet Admiral William F. Halsey, Jr. (1882–1959). Awarded the Navy Cross during WW I for his actions on Atlantic convoy duty, he became a Naval Aviator in 1935 at age 52. Early in WW II he led a task force built around *Enterprise* (CV 6) during raids against the Japanese, then commanded the forces in the South Pacific. Halsey also led the Third Fleet during the Leyte Gulf and Okinawa campaigns, 1944–1945.

19 The amphibious assault ship *Bataan* (LHD 5), with aircraft and personnel from II Marine Expeditionary Force embarked, deployed in support of Operation Iraqi Freedom, returning on 31 March.

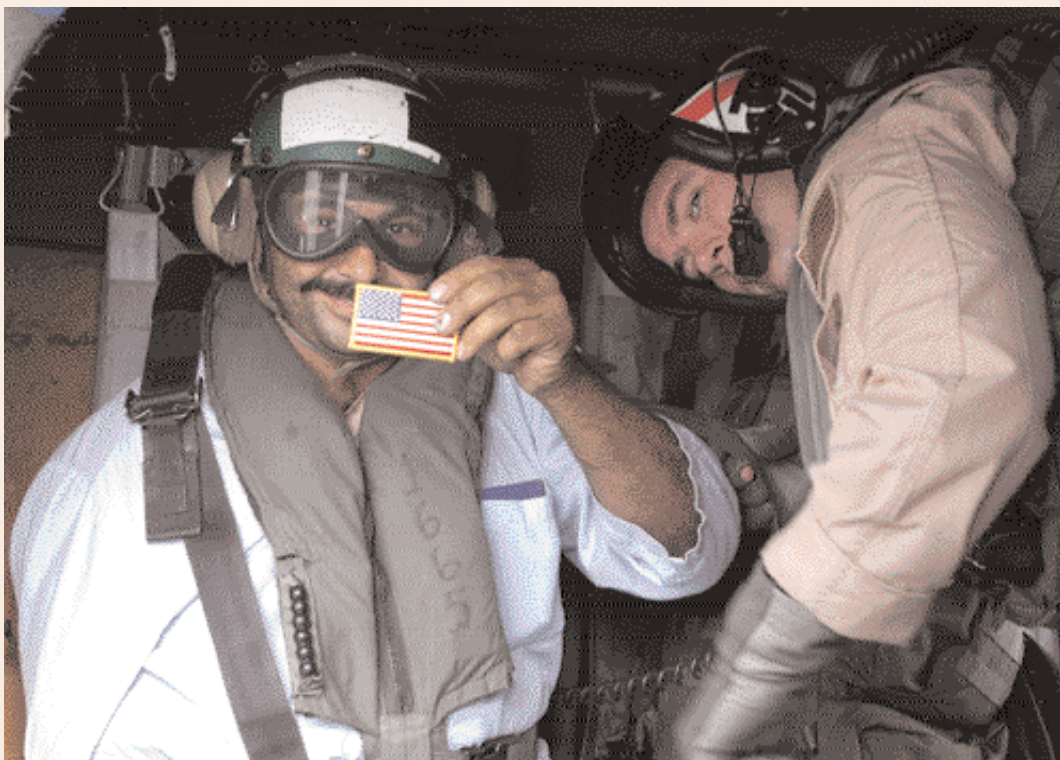
20 The *George Washington* (CVN 73) carrier strike group, with CVW-7 embarked, deployed in support of the global war on terrorism.

23 The Navy announced the signing of an approximately \$570 million, second multi-year procurement contract with Northrop Grumman Corp. for the E-2C Hawkeye 2000.

February

5 Boeing Integrated Defense Systems announced the completion of integration of the AGM-84K Standoff Land Attack Missile-Expanded Response (SLAM-ER) onto the P-3C Orion following three years of development and operational testing. SLAM-ER is a precision-guided weapon with a range of more than 150 miles.

Iraqi merchant seaman Atif Youssifin displays a souvenir American flag patch received during his stay aboard *Enterprise* (CVN 65) in January 2004. AWCS Jim Zobrosky fastens him into his seat in preparation for departure from the carrier. Mr. Youssifin had been flown from his vessel to the carrier to be treated for a medical emergency. Photo by PHAN Joshua E. Helgeson.





MAJOR PATROL SQUADRON DEPLOYMENTS, 2004

NAS Keflavik, Iceland /Hato AB, Curacao, Netherlands Antilles*

VP-10 Aug 03–Feb 04

NAS Sigonella, Italy

VP-45 Aug 03–Feb 04

VP-26 Jan 04–Jul 04

VP-16 Jul 04–Dec 04

(Dets in Bahrain and El Salvador)

VP-5 Dec 04–present

Indian Ocean (Det in Bahrain)

VP-47 Nov 03–Jun 04

VP-9 Jun 04–Dec 04

VP-4 Dec 04–present

NAF Misawa, Japan (Det in Kadena)

VP-1 Dec 03–Jun 04

VP-46 Jun 04–Dec 04

VP-8 Dec 04–present

*In February 2004, Navy maritime patrol aircraft ended scheduled flight operations at Keflavik. Caribbean operations were largely taken over by reserve VP detachments.

Above, a P-3C Orion starts its engines at Utapao, Thailand, on 29 December 2004.

5 Adm. Thomas M. Moorer died in Bethesda, Md., at age 91. Adm. Moorer graduated from the Naval Academy in 1933 and was designated a Naval Aviator on 12 June 1936. Originally flying with Fighter Squadron 1B, he was with Patrol Squadron 22 at Pearl Harbor on 7 December 1941. He flew from Australia with this squadron in 1942 and later joined the staff of U.S. Atlantic Fleet Air Force. Moorer commanded the Seventh and Pacific Fleets during the opening phases of the Vietnam War, followed by assignments as CNO and Chairman, Joint Chiefs of Staff. During his 41 years of service, he received many decorations including the Purple Heart, Silver Star, and Distinguished Flying Cross.

9 The Navy awarded a \$61.8 million contract to the Boeing Co. for the second low-rate initial production of 12 AN/APG-79 active electronically scanned array radar systems for the F/A-18E/F Super Hornet.

9 The DoD announced the creation of the Korean Defense Service Medal to give special recognition to veterans serving in the Republic of Korea (ROK) from 28 July 1954 to a date to be determined. Legislated by Public Law 107-314, eligibility for the medal includes 30 consecutive or 60 nonconsecutive days of deployment in all land areas of the ROK, the contiguous water out to 12 nautical miles, and all air spaces above these areas, together with additional eligibility criteria.

10 The Officer Training Command Pensacola, NAS Pensacola, Fla.—consisting of Officer Candidate School, Limited Duty Officer/Chief Warrant Officer School, and the Direct Commissioned Officer Indoctrination School—celebrated its establishment ceremony.

14 The keel was laid for the amphibious assault ship *Makin Island* (LHD 8) at Northrop Grumman Ship Systems, Pascagoula, Miss. *Makin Island* honors the

sailors and Marines who raided that Japanese-held island on 17 August 1942.

17 Expeditionary Strike Group (ESG) 2, formed around the amphibious assault ship *Wasp* (LHD 1), with the 22nd Marine Expeditionary Unit (Special Operations Capable) embarked, began the first deployment of an east coast-based ESG, returning on 18 September.

18 The DoD announced the retroactive authorization of Imminent Danger Pay and Combat Zone Tax Relief benefits to Navy personnel deployed to the eastern Mediterranean Sea during the initial operations of Operation Iraqi Freedom (19 March–1 August 2003), principally TF 61 and the *Harry S. Truman* (CVN 75) and *Theodore Roosevelt* (CVN 71) battle groups.

19 The Airframe and Powerplant Program was established at CNATT Pensacola, Fla., giving Navy aviation technicians the opportunity to earn the Federal Aviation Administration's Airframe and Powerplant license, a civilian aviation standard certification.

23–29 A shipboard mission control system allowing X-47B unmanned combat aerial vehicles to operate safely and independently during conventional manned flight operations, one aspect of the Joint Unmanned Combat Air System (J-UCAS) program, was demonstrated on board *Harry S. Truman* (CVN 75). The J-UCAS is designed to provide intelligence, surveillance and reconnaissance support, suppression of enemy air defenses, and precision strikes for the Navy and Air Force.

26 The Global War on Terrorism Expeditionary Medal and the Global War on Terrorism Service Medal were given final approval. Eligibility for each is initially determined by service in operations combating terrorism beginning on 11 September 2001, with a terminal date to be determined.

28 *Bow Mariner*, a 570-foot Singapore-flagged tanker carrying industrial ethanol, exploded and sank in the Atlantic Ocean 50 miles east of Chincoteague,



Va. Coast Guard crews from an HC-130H Hercules and two HH-60Js from CGAS Elizabeth City, N.C., an HH-65A Dolphin from CGAS Atlantic City, N.J., and the cutters *Albacore* (WPB 87309) and *Shearwater* (WPB 87349) rescued 6 of the 27 crew members from the stricken ship during a night search and rescue mission.

29 The *Enterprise* (CVN 65) carrier strike group completed a deployment which began on 2 October 2003 in support of the global war on terrorism.

March

The Joint Common Missile (JCM) completed launcher and integration testing, successfully interfacing with the F/A-18C/D Hornet and F/A-18E/F Super Hornet, at NAWS China Lake, Calif. The JCM is an air-to-ground precision missile that will be carried on board Navy, Marine Corps, and Army aircraft.

1 Boeing Integrated Defense Systems announced receipt of a \$642 million contract for the production of more than 32,000 Joint Direct Attack Munition Lot 8 guidance kits for the Navy and Air Force.

9 Expeditionary Strike Group 1, built around the amphibious assault ship *Peleliu* (LHA 5), returned from a six and a half month deployment in support of the global war on terrorism.

11 During an acceptance ceremony at NAS Patuxent River, Md., Air Test and Evaluation Squadron 20 welcomed its first T-6A Texan II for testing.

21 Capt. Arthur Ray Hawkins, a highly decorated veteran of WW II and the Korean War, died at age 81. Hawkins joined the Navy on 29 April 1942, and was commissioned as an ensign and designated a Naval Aviator on 1 January 1943. He was credited with 14 confirmed Japanese kills, as well as attacks on enemy ships, including participating in the sinking of Japanese battleship *Ise*. Hawkins later served twice with the Blue

Below, Carrier Air Wing 17 embarked John F. Kennedy (CV 67) for the carrier's 2004 combat cruise to the Arabian Gulf in support of Operation Iraqi Freedom. Photo by PH2 Michael Sandberg.





Angels. His numerous awards include three Navy Crosses and two Distinguished Flying Crosses.

21 The crews of the frigate *Stephen W. Groves* (FFG 29) and her embarked SH-60B Seahawk from HSL-42 Det 10 rescued 103 Ecuadorian migrants from their unseaworthy 40-foot fishing boat in the eastern Pacific Ocean.

22 Lt. Col. Kevin Gross, USMC, and test pilot Steve Grohsmeyer, flying Osprey No. 22, made the first V-22 Osprey air-to-air refueling flights since the program's return to flight in May 2002, near NAS Patuxent River, Md. This was the first step toward testing a retractable probe.

22 *Everton*, a 567-foot Greek-flagged tanker, and *Chun Ying*, a Korean-flagged fishing vessel, collided off the coast of Oman during the morning watch, igniting a fire on board the tanker. The crew of the cruiser *Yorktown* (CG 48), including her embarked SH-60B Seahawk from HSL-42 Det 2, assisted in the multinational search and rescue of 24 of *Everton's* 25 crew members.

30 The Navy and Rockwell Collins signed a \$79.5 million contract for the system development and demonstration of Block I modifications to the E-6B

An EA-6B Prowler from Marine Tactical Electronic Warfare Squadron 2 conducts a combat mission on 14 August 2004 in support of Operation Iraqi Freedom. Photo by SSgt. Lee O. Tucker.

Mercury, intended to improve the reliability and maintainability of the aircraft's communications systems.

April

The Mariner unmanned aerial vehicle was demonstrated for the Navy's Broad Area Maritime Surveillance program by General Atomics Aeronautical Systems, Inc., and Lockheed Martin, at San Diego, Calif. The demonstration included a unique UAV-capable 360° maritime surveillance search radar installed on board a Mariner.

Aviation Career Continuation Pay was approved for Full-Time Support pilots and naval flight officers to retain experienced personnel.

2 The EA-6B Prowler Improved Capability III airborne electronic attack weapon system began operational evaluation with Air Test and Evaluation Squadron 9, NAWS China Lake, Calif.

5 General Atomics was awarded a \$145.6 million contract to design, fabricate, integrate, test and support a full-scale prototype of the Electromagnetic Aircraft Launch System at NAES Lakehurst, N.J. EMALS is intended for installation on board CVN 21 class carriers.



8 The Fleet Antisubmarine Warfare Command, San Diego, Calif., was established to integrate advanced ASW networks, establish doctrine and operating concepts, coordinate ASW training, and advise naval leadership.

9 The National Museum of Naval Aviation, Pensacola, Fla., acquired the last T-2C Buckeye to make a carrier landing, BuNo 157058. The final trap occurred on board *Harry S. Truman* (CVN 75) on 25 July 2003.

18 An operator-directed X-45A Joint Unmanned Combat Air System dropped a 250 pound inert guided small smart bomb on target at NAWS China Lake, Calif., demonstrating that an unmanned combat system could effectively deliver a precision weapon.

21 The Navy awarded the Boeing Co. a \$3.4 million contract to begin modernizing avionics on the 48 Naval and Marine Reserve C-130Ts and KC-130Ts.

22 The V-22 Osprey surpassed 2,000 flight hours since the program's return to flight in May 2002, with a mission by one of VMX-22's MV-22s.

29 Commander, Operational Testing and Evaluation, Marine Corps, recommended the full fleet introduction of the KC-130J for operational use.

30 The amphibious transport dock LPD 22 was named in honor of the city of San Diego, Calif. Building at Northrop Grumman Ship Systems, Avondale Operations, New Orleans, La., *San Diego* is capable of operating CH-46 Sea Knights and MV-22 Ospreys.

May

A ScanEagle unmanned aerial vehicle (UAV) launched and recovered autonomously on board *Shackleton*, a 58-foot fishing boat, in Puget Sound, Wash. During a simulated mission, the UAV conducted area surveillance with its electro-optical camera. In August ScanEagle again operated from *Shackleton*, flying an intelligence, surveillance, and reconnaissance mission lasting almost 17 hours, demonstrating sustained ship-based UAV endurance.

5 Lockheed Martin was awarded a contract valued at approximately \$5 billion to develop the AGM-169A Joint Common Missile (JCM). As many as 54,000 JCMs are expected to be produced for the Navy, Marine Corps, and Army, with fleet introduction anticipated in 2010.

6 Cdr. Stewart R. Graham, USCG (Ret.), the Coast Guard's Aviator No. 114 and Helicopter Pilot No. 2, was inducted into the Hall of Honor at the National Museum of Naval Aviation, Pensacola, Fla. Born on 25 September 1917, Graham pioneered helicopter development during WW II, making the first helo

MAJOR ELECTRONIC ATTACK EXPEDITIONARY SQUADRON DEPLOYMENTS, 2004

MCAS Iwakuni, Japan

VAQ-128	Oct 03–Jan 04
VMAQ-4	Jan 04–Apr 04
VMAQ-1	Mar 04–Oct 04
VAQ-142	Oct 04–Apr 05

Bagram Air Base, Afghanistan

VAQ-137 Det	Dec 03–Jan 04
VAQ-142	Dec 03–Apr 04
VAQ-134	Apr 04–Aug 04
VAQ-133	Aug 04–Jan 05

Tallil Air Base, Iraq

VMAQ-2	Jul 04–Jan 05
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5 The Navy announced that in June 2005, the carrier *Oriskany* (CV/CVA 34) would be transferred to the state of Florida for use as an artificial reef, the first carrier to be disposed of in this manner.

7 The V-22 Osprey program manager announced that the HV-22 designation would not be used, and the Navy would purchase MV-22s instead.

8 The first AH-1W Super Cobra, BuNo 160745, arrived at NADEP Cherry Point, N.C., to begin conversion to the AH-1Z.

takeoff from a ship on the high seas, flying an YR-4B (HNS-1) from the 10,000-ton British freighter *Daghestan* while she was en route from New York to Liverpool, U.K., on 16 January 1944. Graham also participated in the rescue of 18 of the 44 people on board a DC-4 that crashed 20 miles southeast of Gander, Newfoundland, in September 1946, proving the utility of helos for search and rescue in remote locations. His many awards include the Distinguished Flying Cross.

6 NASA announced the selection of 11 astronaut candidates, including Naval Aviator Maj. Randolph J. Bresnik, USMC.

6 The H-1 upgrade program achieved 2,000 flight hours during AH-1Z weapons accuracy testing and UH-1Y external loads testing at the Army's Yuma Proving Ground, Ariz.

8 Following a five-month post shakedown availability, *Ronald Reagan* (CVN 76) received her second flight deck certification. Two days later she launched her last Tomcat, an F-14D from Fighter Squadron 213.

15 The AIM-9X Sidewinder air-to-air missile was authorized for full-rate production.

17 The UH-1Y Huey upgrade fired weapons for the first time during a test flight at Fort A. P. Hill, Va.

21 Northrop Grumman

An F/A-18C Hornet from Strike Fighter Squadron 105 launches from *Harry S. Truman* (CVN 75) while operating in the Arabian Gulf. Photo by PHAN Ryan O'Connor.

Corp., Newport News, Va., was awarded a \$1.4 billion construction preparation and design contract for CVN 21.

27 *Ronald Reagan* (CVN 76), with elements of six squadrons from CVW-11 embarked, sailed from NS Norfolk, Va., for her new homeport of NAS North Island, Calif., arriving on 23 July. Among those on hand to greet the ship's arrival was former First Lady Nancy D. Reagan.

29 The destroyer *Pinckney* (DDG 91) was commissioned at Naval Base Ventura County, Calif. The ship honors Officer's Cook Third Class William Pinckney, an African American sailor awarded the Navy Cross during WW II for rescuing a fellow crew member from a burning ammunition handling room on board *Enterprise* (CV 6) during the Battle of the Santa Cruz Islands on 26 October 1942.

June

11 The Boeing Co. announced receipt of an \$86 million contract for the first full-rate production lot of the Joint Helmet-Mounted Cueing System, with 2,000 systems expected for U.S. and international aircraft, including the F/A-18E/F Super Hornet.

14 The Boeing Co. received a \$3.89 billion contract for the system development and demonstration phase of the Multimission Maritime Aircraft. Plans call for acquisition of



MAJOR CARRIER AND AIR WING DEPLOYMENTS, 2004

Enterprise (CVN 65)

CVW-1 (Tail Code AB)
IO/Arabian Gulf
1 Oct 03–29 Feb 04

Squadron	Aircraft
VF-211	F-14A
VFA-82	F/A-18C
VFA-86	F/A-18C
VMFA-312 (DR)*	F/A-18A
VAW-123	E-2C
VAQ-137	EA-6B
VRC-40 Det 2	C-2A
VS-32	S-3B
HS-11	SH-60F/HH-60H

John C. Stennis (CVN 74)

CVW-14 (Tail Code NK)
Westpac
24 May 04–1 Nov 04

Squadron	Aircraft
VF-31	F-14D
VFA-25	F/A-18C
VFA-113	F/A-18C
VFA-115	F/A-18E
VAW-115	E-2C
VAQ-139	EA-6B
VRC-30 Det 1	C-2A
VS-35	S-3B
HS-4	SH-60F/HH-60H

Harry S. Truman (CVN 75)

CVW-3 (Tail Code AC)
Med/Arabian Gulf
13 Oct 04–18 Apr 05

Squadron	Aircraft
VF-32	F-14B
VFA-37	F/A-18C
VFA-105	F/A-18C
VMFA-115 (VE)*	F/A-18A
VAW-126	E-2C
VAQ-130	EA-6B
VRC-40 Det 1	C-2A
VS-22	S-3B
HS-7	SH-60F/HH-60H

George Washington (CVN 73)

CVW-7 (Tail Code AG)
Med/Arabian Gulf
20 Jan 04–26 Jul 04

Squadron	Aircraft
VF-11	F-14B
VF-143	F-14B
VFA-131	F/A-18C
VFA-136	F/A-18C
VAW-121	E-2C
VAQ-140	EA-6B
VRC-40 Det 3	C-2A
VS-31	S-3B
HS-5	SH-60F/HH-60H

John F. Kennedy (CV 67)

CVW-17 (Tail Code AA)
Med/Arabian Gulf
7 Jun 04–13 Dec 04

Squadron	Aircraft
VF-103	F-14B
VFA-34	F/A-18C
VFA-81	F/A-18C
VFA-83	F/A-18C
VAW-125	E-2C
VAQ-132	EA-6B
VRC-40 Det 4	C-2A
VS-30	S-3B
HS-15	SH-60F/HH-60H

Abraham Lincoln (CVN 72)

CVW-2 (Tail Code NE)
WestPac
19 Oct 04–1 Mar 05

Squadron	Aircraft
VFA-2	F/A-18F
VFA-82	F/A-18C
VFA-137	F/A-18E
VFA-151	F/A-18C
VAW-116	E-2C
VAQ-131	EA-6B
VRC-30 Det 4	C-2A
HSL-47	SH-60B
HS-2	SH-60F/HH-60H

* While on deployment, VMFA squadrons take on the tail code of the air wing. Their original tail codes are noted in parentheses.

108 MMAs, totaling approximately \$20 billion, to ultimately replace the P-3C Orion.

24 A ceremony at NADEP Jacksonville, Fla., commemorated the last overhaul of an F-14 Tomcat. The depot was designated for reworking and repairing F-14s in 1994.

21–29 The V-22 Osprey Integrated Test Team successfully completed the fifth at-sea period testing the Osprey's shipboard suitability, on board the amphibious assault ship *Iwo Jima* (LHD 7) off the coast of Maryland. This phase of testing resulted in expanded operational wind envelopes and cleared the use of more shipboard spots than previous tests.

July

The Boeing Co. received a contract from the Marine Corps to provide two ScanEagle unmanned aerial vehicle

mobile deployment units, each consisting of several UAVs, for use with I Marine Expeditionary Force in Iraq. ScanEagle would later be used extensively during the November battle at Fallujah, where its intelligence, surveillance, and reconnaissance capabilities contributed to coalition victory.

5 The *George Washington* (CVN 73) carrier strike group returned from the Arabian Gulf after more than four months on station supporting Operation Iraqi Freedom. During its deployment, the group launched strikes into Iraq, and its aircraft also participated in maritime intercept operations leading to the boarding of more than 200 vessels.

15 LCdr. Mark Tankersley and Ltjg. Scott Timmester of Fighter Squadron 213 made the last AIM-54C Phoenix long-range air-to-air missile firing, as the Navy continued to phase the weapon out of inventory by 30 September. First deployed with Fighter Squadrons 1 and 2 on board

MAJOR AMPHIBIOUS ASSAULT CARRIER AND MARINE HELICOPTER SQUADRON (REIN) DEPLOYMENTS, 2004

Peleliu (LHA 5)

HMM-163(R) (Tail Code YP)
WestPac/IO
22 Aug 03–09 Mar 04

Squadron	Aircraft
VMA-513 Det	AV-8B
HMM-163	CH-46E
HMH-465 Det	CH-53E
HMLA-169 Det	UH-1N/AH-1W
HC-11 Det 9 (VR)*	MH-60S

Boxer (LHD 4)

HMH-466**
WestPac/IO
14 Jan 04–29 Apr 04

Squadron	Aircraft
HMH-466 (YK)	CH-53E
HC-11 Det 5 (VR)*	CH-46D

Bataan (LHD 5)

HMM-261 & HMLA-167***
Med/IO
19 Jan 04–31 Mar 04

Squadron	Aircraft
HMM-261 (EM)	CH-46E
HMLA-167 Det B (TV)	UH-1N/AH-1W
HC-6 Det 2 (HW)*	MH-60S

Wasp (LHD 1)

HMM-266(R) (Tail Code ES)
Med/IO
17 Feb 04–18 Sep 04

Squadron	Aircraft
VMA-542 Det	AV-8B
HMM-266	CH-46E
HMH-? Det	CH-53E
HMLA-? Det	UH-1N/AH-1W
HC-8 Det 5 (BR)*	MH-60S

Belleau Wood (LHA 3)

HMM-166(R) (Tail Code YX)
WestPac/IO
27 May 04–24 Oct 04

Squadron	Aircraft
VMA-214 Det B	AV-8B
HMM-166	CH-46E
HMH-465 Det	CH-53E
HMLA-169 Det	UH-1N/AH-1W
HC-11 Det 1 (VR)*	MH-60S

Kearsarge (LHD 3)

HMM-263(R) (Tail Code EG)[†]
Med/IO
07 Jun 04–14 Aug 04

Squadron	Aircraft
HMM-263	CH-46E
HMH-464 Det	CH-53E
HC-8 Det 1 (BR)*	MH-60S

Essex (LHD 2)

HMM-265(R) (Tail Code EP)
IO
23 Aug 04–06 Apr 05

Squadron	Aircraft
VMA-211 Det	AV-8B
HMM-265	CH-46E
HMH-463 Det	CH-53D
HMLA-369 Det	UH-1N/AH-1W
HC-5 Det 6 (RB)*	MH-60S
HM-15 (TB) ^{††}	MH-53E
HMM-262 Det (ET) ^{††}	CH-46E
HC-5 Det 3 (RB) ^{††}	MH-60S

Bonhomme Richard (LHD 6)

HMM-165(R) (Tail Code YW)
WestPac/IO
06 Dec 04–present

Squadron	Aircraft
VMA-513	AV-8B
HMM-165	CH-46E
HMH-462 Det	CH-53E
HMLA-? Det	UH-1N & AH-1W
HC-11 Det 4 (VR)*	MH-60S

* While on deployment, HC squadron detachments are assigned to the amphibious assault carrier rather than to the embarked Marine helicopter squadron (reinforced). The detachment helicopters therefore retain their own squadron tail codes.

** *Boxer* transported HMH-466 from San Diego, Calif., to the CENTCOM AOR. Offload of the squadron, Marines, and equipment was conducted in the northern Arabian Gulf from 20–25 February.

*** *Bataan* transported HMM-261 and HMLA-167 from MCAS Cherry Point, N.C., to the CENTCOM AOR. Offload of the squadrons, Marines, and equipment was conducted in the northern Arabian Gulf from 20–22 February.

[†] HMM-263 and the HMH-464 det flew ashore from *Kearsarge* in the Arabian Sea to the CENTCOM AOR (Kuwait) on 7 July and linked up with the other elements of HMM-263 (Rein) which were transported by air to Kuwait. HMM-263 (Rein) was returned to CONUS by air transport in February 2005.

^{††} *Essex* was temporarily assigned to provide relief support to the area of southeast Asia devastated by the tsunami of 26 December 2004. With HMM-265(Rein) operating ashore in Iraq, a detachment of four MH-53E Sea Dragons from HM-15 was flown aboard at Bahrain on 10 January. On 18 January, the two MH-60S Seahawks from HC-5 Det 3 on board USNS *Niagara Falls* (T-AFS-3) and six CH-46E Sea Knights from HMM-262, transported from Okinawa by *Fort McHenry* (LSD 43), boarded the ship. By 10 February, *Essex* had completed her relief operations and returned to the Arabian Gulf.

Thanks to William S. Hart for compiling this data.

Enterprise (CVN 65) on 17 September 1974, the merger of the Phoenix with the F-14 Tomcat produced one of the most capable air superiority platforms ever developed. More than 4,566 Phoenix missiles were built.

19 Full-scale models of the X-47B and X-45C Joint Unmanned Combat Air System (J-UCAS) vehicles were unveiled by Northrop Grumman Corp., and Boeing Co., respectively, during the opening of the

Farnborough International Air Show, U.K. Northrop Grumman also announced that the RQ-4A Global Hawk UAV surpassed 2,000 combat flight hours in Afghanistan and Iraq in the global war on terrorism. In service with the Air Force, the Global Hawk is also under development for the Navy.

20 Aircraft embarked on board *John F. Kennedy* (CV 67) in the Arabian Gulf struck anti-Iraqi forces



threatening Multinational Corps-Iraq. An F-14 Tomcat dropped GBU-12 guided bombs and an F/A-18C Hornet dropped GBU-32s on the enemy positions.

23 Bloodhound 200, the last NF-14D Tomcat at Naval Base Ventura County, Calif., BuNo 163416, made its final flight with Air Test and Evaluation Squadron 30, ending research, development, test, and evaluation flight operations with the Tomcat.

August

13 The Naval Aerospace Medicine Institute dedicated and named its Aerospace Medicine Academic Center in honor of two Naval Aviation personnel, Capt. David M. Brown and Capt. Laurel B. S. Clark. Both former Navy

Sailors and Marines prepare for flight operations aboard *Kearsarge* (LHD 3) to transport elements of the 24th MEU(SOC) to the Kuwait Naval Base as *Belleau Wood* (LHA 3) steams in the distance on 7 July 2004. Photo by PH3 Angel Roman-Otero.

flight surgeons, they were among the seven astronauts lost when the space shuttle *Columbia* broke apart during her descent into Kennedy Space Center, Fla., on 1 February 2003.

14 The East Coast Hawkeye-Greyhound Ball, Norfolk, Va., celebrated the E-2 Hawkeye's one-millionth flight hour, as well as the 40th anniversary of the C-2 Greyhound's first flight.

22–23 *Nimitz* (CVN 68) conducted sea trials following completion of a six-month planned incremental availability at NAS North Island, Calif., that began on 23 February.

27 Northrop Grumman Newport News Shipbuilding, Newport News, Va., was awarded an almost \$2 billion modification to a previously awarded contract for the extended selected restricted availability of *Enterprise* (CVN 65). *Enterprise* entered the shipyard on 3

September, with completion expected by June 2005.

28 The crew of the SH-60B Seahawk from HSL-45 Det 6 embarked on board the frigate *Curtis* (FFG 38) spotted the 36-foot *El Poder de Dios* foundering 300 miles east of Ecuador. The helo crew directed *Curtis* to the scene, effecting a combined search and rescue which saved 106 Ecuadorian migrants.

30 The 200th F/A-18 Super Hornet, a two-seat "F" model, was delivered to Air Test and Evaluation Squadron 9, NAWS China Lake, Calif.

September

Carrier suitability tests for the mass memory unit upgrade to the S-3B Viking, designed to allow preflight programming and postflight analysis from a laptop computer, was completed.

7 The final report by Commander, Operational Test and Evaluation Force on the operational assessment of the EP-3E Aries II Sensor System Improvement Program upgrade was issued, finding the upgrade operationally effective and suitable for introduction to Fleet Air Reconnaissance Squadrons 1 and 2.

8 Lt. Col. John F. "Jack" Bolt, USMC, died in Tampa, Fla., at age 83. A veteran of both WW II and the Korean War, Bolt first gained fame during the former war flying F4U-1 Corsairs with the Black Sheep of VMF-214 in the Solomon Islands, becoming an ace by downing six Japanese Zeros. During the Korean War, he flew F-86F Sabres with the Fifth Air Force, shooting down six Communist MiG-15s, becoming the first Naval Aviator to attain five victories in jet combat. Among his many awards were the Navy Cross and the Distinguished Flying Cross.

9 A P-3C Orion from Patrol Squadron 16 spotted a suspected go-fast vessel in the Pacific Ocean and alerted the Coast Guard cutter *Jarvis* (WHEC 725). The cutter's HH-65 Dolphin launched to intercept and both the helo and the Orion crews saw the smugglers throwing contraband over board. Although the go-fast escaped, *Jarvis* recovered bales of cocaine valued at over \$40 million.

9 Expeditionary Strike Group 3 conducted a flag staff crossdeck while at sea in the northern Arabian Gulf from *Belleau Wood* (LHA 3) to *Essex* (LHD 2). The *Essex* ESG was activated the next day.

AVIATION COMMAND CHANGES, 2004

Established

Fleet Antisubmarine Warfare Command	7 Jan
VXS-1	13 Dec

Deactivated

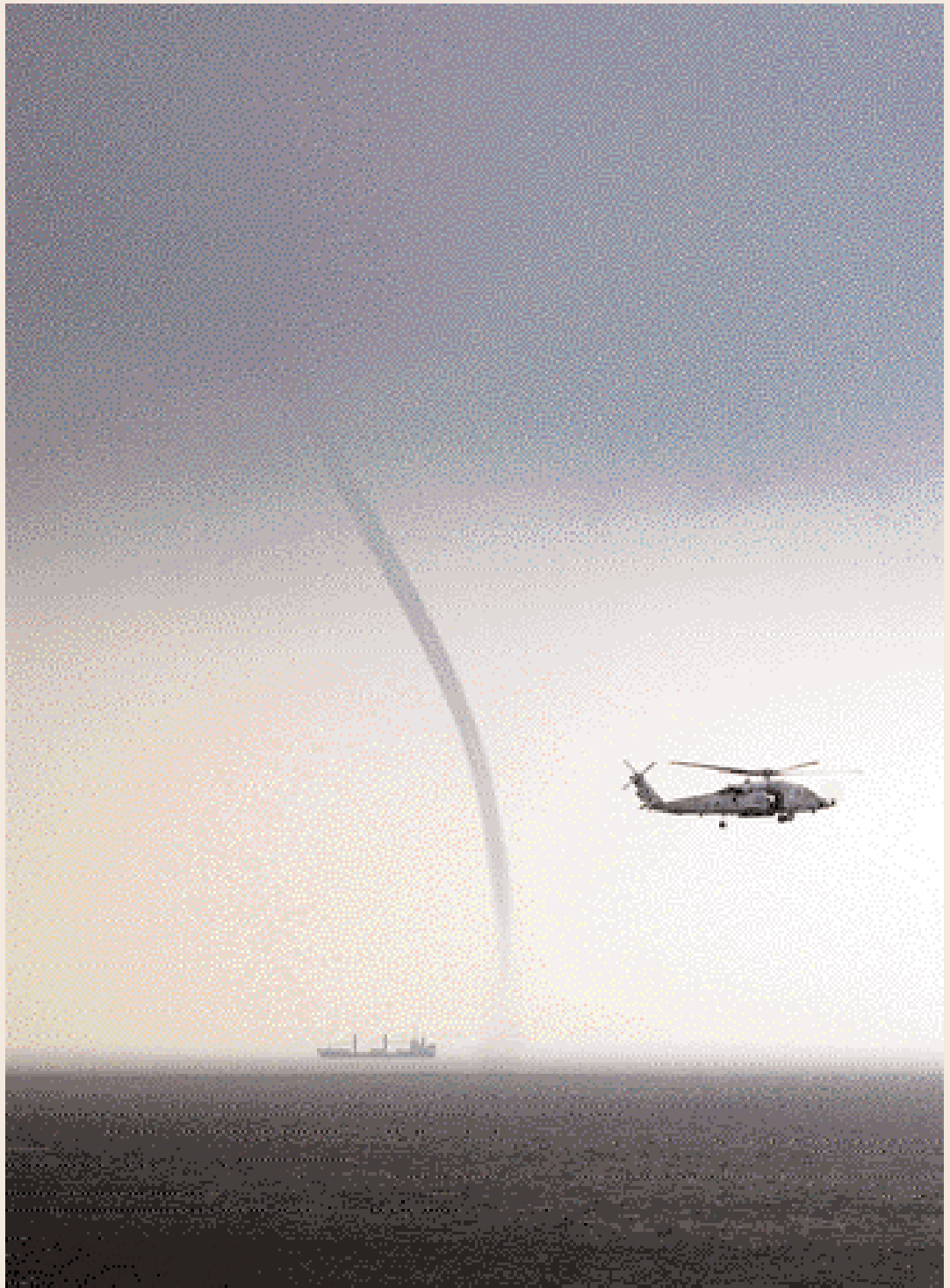
VS-29	30 Apr
VS-38	30 Apr
VFA-203	30 Jun
VAQ-128	30 Sep
Naval Air Reserve Center, Denver, CO	1 Nov
Naval Air Reserve Center, Selfridge, MI	4 Nov
Naval Air Reserve Center, Chicago, IL	4 Nov
Naval Air Maintenance Training Group	3 Dec

Redesignated

VP-64 to VR-64	18 Sep
Commander Carrier Group 1 to Commander Carrier Strike Group 1	1 Oct
Commander Carrier Group 2 to Commander Carrier Strike Group 2	1 Oct
Commander Carrier Group 3 to Commander Carrier Strike Group 3	1 Oct
Commander Carrier Group 4 to Commander Carrier Strike Group 4	1 Oct
Commander Carrier Group 5 to Commander Carrier Strike Group 5	1 Oct
Commander Carrier Group 6 to Commander Carrier Strike Group 6	1 Oct
Commander Carrier Group 7 to Commander Carrier Strike Group 7	1 Oct
Commander Carrier Group 8 to Commander Carrier Strike Group 8	1 Oct
Commander Cruiser-Destroyer Group 1 to Commander Carrier Strike Group 15	1 Oct
Commander Cruiser-Destroyer Group 2 to Commander Carrier Strike Group 10	1 Oct
Commander Cruiser-Destroyer Group 3 to Commander Carrier Strike Group 9	1 Oct
Commander Cruiser-Destroyer Group 5 to Commander Carrier Strike Group 11	1 Oct
Commander Cruiser-Destroyer Group 8 to Commander Carrier Strike Group 12	1 Oct
Commander Cruiser-Destroyer Group 12 to Commander Carrier Strike Group 14	1 Oct
Naval Air Reserve Center, Minneapolis, MN to Naval and Marine Corps Reserve Center Minneapolis	4 Nov

10 The keel was laid for the amphibious transport dock *New York* (LPD 21) at Northrop Grumman Ship Systems, Avondale, La. The ship honors her namesake city as well as the victims of the 11 September 2001 terrorist attacks.

An HH-60H Seahawk of Helicopter Antisubmarine Squadron 4, operating from *John C. Stennis* (CVN 74), keeps an eye on a nearby vessel while a waterspout takes form off the coast of Malaysia on 5 September 2004. Photo by PHAN Richard R. Waite.



17 After surveillance by P-3Cs from Patrol Squadrons 16 and 65, the frigate *Curtis* (FFG 38), her embarked helo from HSL-45 Det 6, and a Coast Guard law enforcement detachment intercepted the fishing vessel *Lina Maria* southwest of the Galapagos Islands. The Coast Guard boarding team found 14 tons of cocaine on board the vessel.

23 A P-3C Orion from Patrol Squadron 16 vectored the frigate *Crommelin* (FFG 37) and her embarked SH-60 Seahawk from HSL-37 Det 3 to the

fishing vessel *San Jose* west of the Galapagos Islands. The frigate's Coast Guard law enforcement detachment discovered 13 tons of cocaine on the vessel.

October

Some Naval Aviation "A" school students began moving from NAS Pensacola, Fla., to NAS Oceana, Va., as part of STAR-21, designed to streamline training by

continued on page 37

LAMPS MK III SHIP DEPLOYMENTS, 2004

HSLWINGLANT

CARRIER STRIKE GROUP DEPLOYMENTS

Enterprise (CVN 65)

1 Oct 03–29 Feb 04

Squadron	Ship
HSL-42 Det 7	<i>Gettysburg</i> (CG 64)
HSL-44 Det 3	<i>Philippine Sea</i> (CG 58) (6 Oct 04–10 Mar 04)
HSL-46 Det 4	<i>Nicholas</i> (FFG 47) (13 Jun 03–16 Dec 03)*
HSL-48 Det 10	<i>Thorn</i> (DD 988) (28 Nov 03–27 May 04)

George Washington (CVN 65)

20 Jan 04–26 Jul 04

Squadron	Ship
HSL-44 Det 8	<i>Bulkeley</i> (DDG 84)
HSL-46 Det 8	<i>Vella Gulf</i> (CG 72)

John F. Kennedy (CV 67)

7 Jun 04–13 Dec 04

Squadron	Ship
HSL-46 Det 2	<i>Spruance</i> (DD 963) (7 Jun 04–7 Dec 04)
HSL-48 Det 9	<i>Roosevelt</i> (DDG 80) (7 Jun 04–7 Dec 04)
HSL-42 Det 8	<i>Vicksburg</i> (CG 69) (15 Jun 04–13 Dec 04)

Harry S. Truman (CVN 75)

13 Oct 04–18 Apr 05

Squadron	Ship
HSL-46 Det 4	<i>Monterey</i> (CG 61)
HSL-46 Det 1	<i>Mason</i> (DDG 87)

EXPEDITIONARY STRIKE GROUP DEPLOYMENTS

Expeditionary Strike Group 2

Wasp (LHD 1)

17 Feb 04–18 Sep 04

Squadron	Ship
HSL-42 Det 2	<i>Yorktown</i> (CG 48) (17 Feb 04–17 Aug 04)
HSL-48 Det 5	<i>Leyte Gulf</i> (CG 55) (15 Feb 04–15 Aug 04)

INDIVIDUAL DEPLOYMENTS

Squadron	Dates	Ship
HSL-48 Det 7	28 Jul 03–26 Jan 04	<i>Doyle</i> (FFG 39)
HSL-42 Det 10	25 Sep 03–18 Mar 04	<i>Stephen W. Groves</i> (FFG 29)
HSL-44 Det 7	25 Sep 03–19 Mar 04	<i>Samuel B. Roberts</i> (FFG 58)
HSL-46 Det 7	9 Feb 04–20 Jul 04	<i>Klakring</i> (FFG 42)
HSL-42 Det 9	26 Apr 04–2 Aug 04	<i>Thomas S. Gates</i> (CG 72)
HSL-42 Det 4	30 Apr 04–17 Sep 04	<i>Elrod</i> (FFG 55)
HSL-44 Det 5	15 Jun 04–9 Dec 04	<i>DeWert</i> (FFG 45)
HSL-46 Det 5	18 Jun 04–20 Dec 04	<i>John L. Hall</i> (FFG 32)
HSL-48 Det 3	20 Aug 04–13 Feb 04	<i>Hue City</i> (CG 66)
HSL-44 Det 1	20 Aug 04–13 Feb 04	<i>Underwood</i> (FFG 36)
HSL-44 Det 10	7 Sep 04–9 Dec 04	<i>Simpson</i> (FFG 56)
HSL-60 Det 2 ^{††}	8 Oct 04–8 Apr 05	<i>Boone</i> (FFG 40)
HSL-48 Det 7	8 Oct 04–8 Apr 05	<i>Halyburton</i> (FFG 40)
HSL-44 Det 9	28 Nov 04–present	<i>Taylor</i> (FFG 50)
HSL-48 Det 6	29 Nov 04–present	<i>O'Bannon</i> (DD 987)

HSLWINGPAC

CARRIER STRIKE GROUP DEPLOYMENTS

John C. Stennis (CVN 74)

24 May 04–1 Nov 04

Squadron	Ship
HSL-49 Det 6	<i>Ford</i> (FFG 54)
HSL-45 Det 4	<i>Lake Champlain</i> (CG 57) (24 May 04–25 Oct 04)
HSL-45 Det 1	<i>Howard</i> (DDG 83) (24 May 04–25 Oct 04)

Abraham Lincoln (CVN 72)

19 Oct 04–1 Mar 05

Squadron	Ship
HSL-47	<i>Abraham Lincoln</i> (CVN 72)**
	<i>Shiloh</i> (CG 67)
	<i>Shoup</i> (DDG 86)

EXPEDITIONARY STRIKE GROUP DEPLOYMENTS

Expeditionary Strike Group 1

Peleliu (LHA 5)

29 Aug 03–9 Mar 04

Squadron	Ship
HSL-49 Det 3	<i>Jarrett</i> (FFG 33)
HSL-37 Det 1	<i>Port Royal</i> (CG 73) (3 Sep 03–11 Mar 04)
HSL-49 Det 4	<i>Fletcher</i> (DD 992) (5 Dec 03–3 June 04)***

Expeditionary Strike Group 3[†]

Belleau Wood (LHA 5)

27 May 04–24 Oct 04

Essex (LHD 2)

23 Aug 04–6 Apr 05

Squadron	Ship
HSL-43 Det 2	<i>Mobile Bay</i> (CG 53) (17 Jun 04–present)
HSL-43 Det 3	<i>Preble</i> (DDG 88) (17 Jun 04–17 Dec 04)

Expeditionary Strike Group 5

Bonhomme Richard (LHD 6)

6 Dec 04–present

Squadron	Ship
HSL-43 Det 4	<i>Thach</i> (FFG 53)
HSL-49 Det 2	<i>Bunker Hill</i> (CG 52)

INDIVIDUAL DEPLOYMENTS

Squadron	Dates	Ship
HSL-43 Det 6	3 Dec 03–2 Jun 04	<i>McClusky</i> (FFG 41)
HSL-37 Det 4	12 Feb 04–23 Apr 04	<i>Reuben James</i> (FFG 57)
HSL-60 Det 1 ^{††}	10 Mar 04–19 Jul 04	<i>Ticonderoga</i> (CG 49)
HSL-43 Det 5	25 Mar 04–21 Jun 04	<i>Valley Forge</i> (CG 50)
HSL-49 Det 5	5 May 04–7 Nov 04	<i>McCampbell</i> (DDG 85)
HSL-37 Det 3	12 May 04–12 Nov 04	<i>Crommelin</i> (FFG 37)
HSL-45 Det 6	2 Aug 04–2 Feb 05	<i>Curts</i> (FFG 38)
HSL-37 Det 5	23 Aug 04–18 Dec 04	<i>Lake Erie</i> (CG 70)
HSL-51 Det 5	19 Aug 04–17 Oct 04	<i>McCampbell</i> (DDG 85)***



AW2 Lloyd Goodison of Helicopter Antisubmarine Squadron Light 42 inspects his gear before a flight from Vicksburg (CG 69) in support of Operation Iraqi Freedom. Photo by PH2 Michael Sandberg.

* Early deployer.

** HSL-47 was the first LAMPS squadron deployed in its entirety to a carrier. The squadron provided LAMPS detts to the other ships of the strike group.

*** *Fletcher* (DD 992) was one of the ships participating in the Sea Swap Program and was first deployed to the Fifth Fleet AOR in 2002.

† Commander ESG-3 shifted his flag from *Belleau Wood* to *Essex* on 10 September 2004.

** Deployed reserve detachment.

††† The HSL-51 det augmented the HSL-49 det on board *McCampbell* for extended maritime interdiction operations.

having students attend schools in the same geographical areas as their permanent duty stations.

1 VAdm. Charles W. Moore, Jr., passed the Gray Eagle Trophy—honoring the Naval Aviator on the active duty list, not recalled, holding that designation for the longest period of time—to Adm. Gregory G. Johnson. Adm. Johnson passed the trophy to Lt. Gen. Robert Magnus, USMC, on 29 November.

1 The Navy transferred operation of the Naval Space Surveillance System, the “Fence,” utilized to track satellites and debris orbiting the Earth, to the Air Force, during a ceremony at Naval Network and Space Operations Command, Dahlgren, Va.

2 The destroyer *Forrest Sherman* (DDG 98) was christened at Northrop Grumman Ship Systems, Pascagoula, Miss. She was the second ship named in honor of Adm. Forrest P. Sherman (1896–1951), who was the Chief of Naval Operations at the time of his death. Sherman commanded Naval Aviation squadrons in the 1920s and 1930s, going on to command *Wasp* (CV 7) in 1942, followed by staff assignments through the remainder of WW II. He earned the Distinguished Service Medal for his role in planning the capture of Japanese-held islands.

2–8 Two joint interceptions involving a Navy P-3C Orion and the Coast Guard cutter *Gallatin* (WHEC 721) seized nearly 8,000 pounds of cocaine and eight smugglers from two go-fast vessels in the Columbian basin. In both instances, as the smugglers attempted to escape and jettisoned cargoes, the crew of *Gallatin*’s MH-68A disabled the boats with gunfire.

6 The first of two RQ-4A Global Hawk unmanned aerial vehicles allocated for the Navy’s Global Hawk Maritime Demonstration Program made its first flight, of approximately four hours, from Northrop Grumman Corp., Palmdale, to Birk Flight Test Center, Edwards AFB, both in California.

22 The production line for the EA-18G, which will begin production starting with the first test model dubbed EA-1, stood up at Boeing Co., St. Louis, Mo. A total of 56 EA-18Gs are included in a multiyear contract covering 2005–2009.

28 President George W. Bush signed the \$420.6 billion FY05 National Defense Authorization Act. In addition to a 3.5

MAJOR HC SQUADRON DEPLOYMENTS, 2004

HELTACWINGLANT

Squadron	Date	Ship/Location
HC-2 Det 1*		<i>LaSalle</i> (AGF 3/Naples, Italy)
HC-2 Det 2*		Manama, Bahrain
HC-4**		Sigonella, Italy
HC-4 Det 1*		Fujairah, UAE
HM-15 Det 2**		Manama, Bahrain
HC-6 Det 1	Sep 03–Feb 04	<i>Detroit</i> (AOE 4)
HC-6 Det 2	Jan 04–Mar 04	<i>Bataan</i> (LHD 5)
HC-6 Det 6	Jan 04–Jul 04	<i>Supply</i> (TAOE 6)
HC-6 Det 4	Jan 04–Jul 04	<i>Sirius</i> (TAFS 6)
HC-8 Det 5	Feb 04–Sep 04	<i>Wasp</i> (LHD 3)
HC-8 Det 1	Jun 04–Aug 04	<i>Kearsarge</i> (LHD 3)
HC-8 Det 4	Jun 04–Dec 04	<i>Seattle</i> (AOE 3)
HC-8 Det 3	Aug 04–Nov 04	<i>Saturn</i> (TAFS 10)/ <i>Spica</i> (TAFS 9)
HC-6 Det 5	Oct 04–Apr 05	<i>Arctic</i> (TAOE 8)

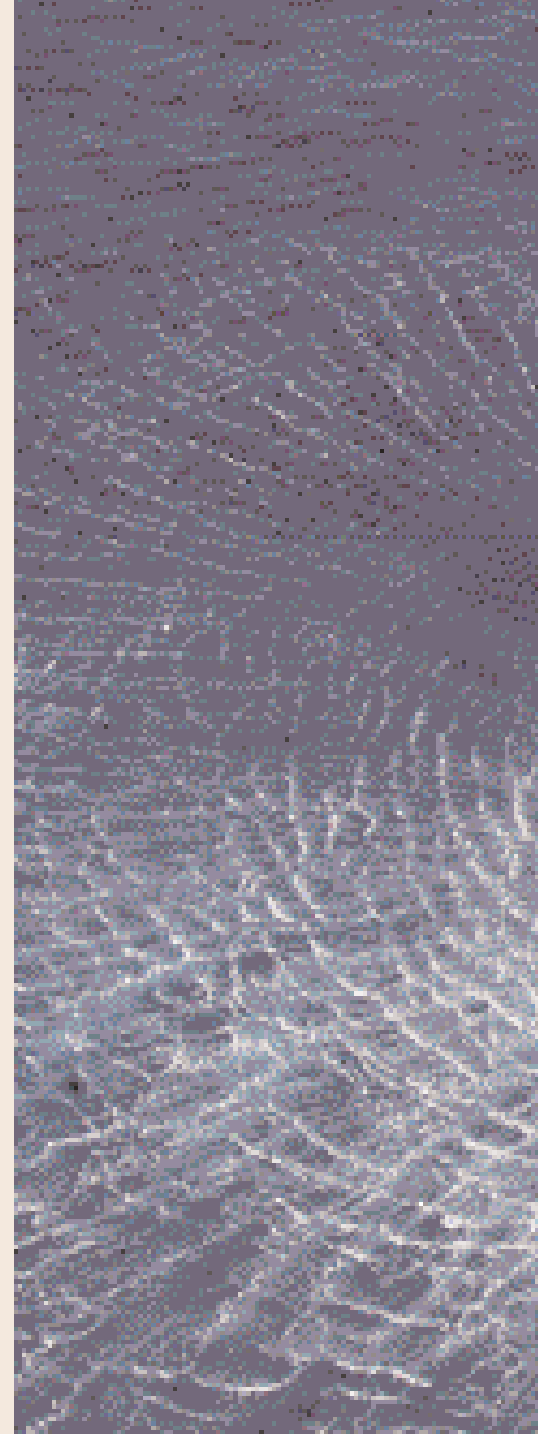
HELTACWINGPAC

Squadron	Date	Ship/Location
HC-5 Det 3	unknown	<i>Niagara Falls</i> (TAFS 3)/ <i>Essex</i> (LHD 2)
HC-5 Det 3	unknown	<i>San Jose</i> (TAFS 7)
HC-5 Det 2	unknown	<i>Flint</i> (TAE 32)
HC-5 Det 4	unknown	<i>Niagara Falls</i> (TAFS 3)
HC-11 Det 9	Aug 03–Mar 04	<i>Peleliu</i> (LHA 5)
HC-11 Det 5	Jan 04–Apr 04	<i>Boxer</i> (LHD 4)
HC-11 Det 1	May 04–Oct 04	<i>Belleau Wood</i> (LHA 3)
HC-11 Det 2	May 04–Nov 04	<i>Rainier</i> (TAOE 7)
HC-5 Det 6	Aug 04–Apr 05	<i>Essex</i> (LHD 2)
HC-11 Det 4	Dec 04–present	<i>Bonhomme Richard</i> (LHD 6)

* Permanent detachment

** Forward deployed

Note: Some data may be incomplete because of limited accurate source material due to the failure of some squadrons and wings to file a 2004 command history in accordance with OPNAVINST 5750.12 H.



percent pay increase for all service members, Naval Aviation provisions included eight Marine MV-22s, \$4.6 billion for the F-35A/B/C Joint Strike Fighter, \$2.9 billion for 42 F/A-18E/Fs, \$708 million for the Joint Unmanned Combat Air System program, \$132.4 million for H-1 upgrades, and \$26.8 million for the P-3 Orion antisurface warfare improvement program. It included further funding for CVN 21; the first follow-on to the LHA class; and one *San Antonio* (LPD 17)-class amphibious assault ship.

28 The Multimission Maritime Aircraft, based on Boeing's commercial 737, began low-speed wind tunnel testing at Boeing Co., St. Louis, Mo., concluding on 5 November.



An HMH-361 CH-53E lowers a battle damaged AH-1W of HMLA-169 at Al Taqaddum, Iraq.



November

The ScanEagle unmanned aerial vehicle surpassed 1,000 flight hours while supporting I Marine Expeditionary Force in Iraq.

7 The Aircraft Intermediate Maintenance Department on board *Ronald Reagan* (CVN 76) performed its first at-sea jet engine test, on an engine from an F/A-18 Super Hornet.

11 Two AH-1W Marine Super Cobras were hit by ground fire in separate incidents during the fighting near Fallujah, Iraq. All crew members were rescued, but two were injured.

Above, an MH-60S from Helicopter Combat Support Squadron 6 flying from Saipan (LHA 2) prepares to retrieve search and rescue swimmers from the Atlantic Ocean on 13 June 2004. Photo by PHAN Gary L. Johnson III.

12–23 The V-22 Integrated Test Team conducted shipboard suitability testing on board the amphibious assault ship *Wasp* (LHD 1) off the Mid-Atlantic coast, primarily consisting of interaction testing between two Ospreys during flight operations.

16 The AGM-154C Joint Standoff Weapon (JSOW-C), the unitary/penetration variant, was unveiled to the Navy at Raytheon Missile Systems, Tucson, Ariz.

20 The seventh C-40A Clipper, BuNo 165835, was delivered to the Naval Reserve.

20 The amphibious transport dock *New Orleans* (LPD 18) was christened at Northrop Grumman Ship Systems, New Orleans, La. She is the second ship of the *San Antonio* (LPD 17) class.

27 A P-3C Orion crew from Patrol Squadron 9 was instrumental in a multinational search and rescue of eight United Arab Emirates fishermen after their dhow sank off the coast of Bahrain.

December

The Joint Common Missile acquired and tracked a *Boghammer*-class small coastal patrol boat capable of attaining 30 knots, representing enemy craft that can threaten warships, during 125 test runs at Eglin AFB, Fla.

1 Lockheed Martin announced receipt of a \$15.6 million contract to integrate the Armed Helicopter Mission Kit for the MH-60S, part of the Navy's Armed Helo program.

2-3 A 40-foot yola carrying 94 Dominican migrants attempting to gain illegal entry into the U.S. capsized as it approached the north coast of Puerto Rico. A Coast Guard HU-25 Guardian spotted the distressed vessel and alerted search and rescue forces, including three HH-65A Dolphins from CGAS Borinquen, Puerto Rico; the cutters *Chincoteague* (WPB 1320) and *Key Largo* (WPB 1324); the Border Patrol; and Immigration and Customs Enforcement. The search and rescue teams rescued 85 survivors, performing 35 hoists from six-foot surf, and recovered the bodies of the nine migrants killed in the shipwreck.

4-13 While deployed on board *Harry S. Truman* (CVN 75) in the Arabian Gulf, Carrier Airborne Early Warning Squadron 126 sent a detachment comprising two E-2C Hawkeyes to Kandahar AB, Afghanistan, to support the inauguration of Hamid Karzai, the country's first democratically elected president. The det provided airborne command and control during the historic event,

AIRCRAFT ACCEPTED IN 2004

Bureau Number	Qty	Type	Name	Contractor
163787	1	HH-60H	Seahawk	Sikorsky
163800	1	HH-60H	Seahawk	Sikorsky
163935-163936	2	AH-1W	Sea Cobra	Bell Helicopter
164843	1	HH-60H	Seahawk	Sikorsky
165596	1	AV-8B	Harrier II	Boeing
165619	1	T-45C	Goshawk	Boeing
165628-165634	7	T-45C	Goshawk	Boeing
165815	1	E-2C	Hawkeye	Northrop Grumman
165819-165821	3	E-2C	Hawkeye	Northrop Grumman
165835	1	C-40A	Clipper	Boeing
165838	1	MV-22B	Osprey	Bell/Boeing
165906-165907	2	F/A-18E	Super Hornet	Boeing
165929	1	F/A-18F	Super Hornet	Boeing
165942-165946	5	MV-22B	Osprey	Bell/Boeing
165987-166000	14	T-6A	Texan II	Raytheon/Beech
166298-166299	2	MH-60S	Seahawk	Sikorsky
166312-166315	4	MH-60S	Seahawk	Sikorsky
166317-166327	11	MH-60S	Seahawk	Sikorsky
166383	1	MV-22B	Osprey	Bell/Boeing
166385-166386	2	MV-22B	Osprey	Bell/Boeing
166388-166389	2	MV-22B	Osprey	Bell/Boeing
166434-166440	7	F/A-18E	Super Hornet	Boeing
166442	1	F/A-18E	Super Hornet	Boeing
166444-166448	5	F/A-18E	Super Hornet	Boeing
166458-166462	5	F/A-18F	Super Hornet	Boeing
166465-166467	3	F/A-18F	Super Hornet	Boeing
166473	1	KC-130J	Hercules	Lockheed Martin
166500	1	UC-35D	Encore	Cessna
166511-166512	2	KC-130J	Hercules	Lockheed Martin
166598-166603	6	F/A-18E	Super Hornet	Boeing
166610-166611	2	F/A-18F	Super Hornet	Boeing
166612	1	F/A-18E	Super Hornet	Boeing
166613-166626	14	F/A-18F	Super Hornet	Boeing
761551	1	F-5N	Tiger II	Northrop

which was attended by an entourage led by Vice President Richard B. Cheney and Secretary of Defense Donald H. Rumsfeld.

7-23 *Selandang Ayu*, a 712-foot freighter of Malaysian registry, lost power in heavy seas, ran aground, and broke in two on the north shore of Unalaska Island, Alaska. A Coast Guard search and rescue force rescued 20 crew members. However, one of the aircraft, an HH-60J from CGAS Kodiak, Tail No. 6020, was lost, causing the deaths of six *Selandang Ayu* crewmen, though the four Coast Guardsmen on board survived. Additional Coast Guard assets participating in the extensive search and rescue included HC-130H Hercules and the cutters *Alex Hailey* (WMEC 39), *Sherman* (WHEC 720), and *Sycamore* (WLB 209).



During Joint Air/Sea Exercise 2004, *Kitty Hawk* (CV 63) sails with *John C. Stennis* (CVN 74) and the ships of their respective carrier strike groups. Photo by PH2 William H. Ramsey.

8 The MH-60S Armed Helicopter Weapons System was previewed in a ceremony at NAS Patuxent River, Md., providing senior leadership a glimpse of system hardware.

14 Commander, Operational Test and Evaluation Force, announced that the Joint Standoff Weapon (JSOW-C) had completed operational testing, and was operationally effective and operationally suitable for fleet deployment.

15 *Theodore Roosevelt* (CVN 71) completed her planned incremental availability, which began when she entered drydock on 19 February, at Norfolk Naval Shipyard, Portsmouth, Va.

15–22 *Oriskany* (CV/CVA 34) was towed by the commercial tug *Dolphin I* from Corpus Christi, Texas, to NAS Pensacola, Fla., in preparation for being sunk as an artificial reef.

26 A magnitude 9.0 earthquake occurred off the west coast of northern Sumatra, Indonesia, triggering a massive tsunami across the Indian Ocean littoral. In places reaching 30 feet high in shallow waters and 6 miles wide, the tsunami killed more than 275,950 people. The *Abraham Lincoln* (CVN 72) carrier strike group, visiting Hong Kong when the disaster struck, and the *Bonhomme Richard* (LHD 6) expeditionary strike group, visiting Guam, as well as P-3C Orions from Patrol Squadrons 4 and 8 immediately responded. The new year began with these and other Naval Aviation assets at the forefront of the historic relief effort, which was designated Operation Unified Assistance.

Curtis Utz and Mark Evans are historians and Dale Gordon is an archivist in the Aviation History Office of the Naval Historical Center's Naval Warfare Division.

AIRCRAFT STRICKEN IN 2004

Aircraft	BuNo	Date	Aircraft	BuNo	Date	Aircraft	BuNo	Date
AH-1W	160745	08 Apr	F-14A	162604	07 Apr	F/A-18A	163144	07 Apr
AH-1W	160800	01 Dec	F-14A	162611	07 Apr	F/A-18A	163145	27 Jun
AH-1W	161016	12 Aug	F-14A	162698	07 Apr	F/A-18A	163150	22 Mar
AH-1W	161021	12 Nov	F-14B	161418	15 Nov	F/A-18A	163154	07 Apr
AH-1W	162535	23 Jan	F-14B	161421	29 Oct	F/A-18A	163160	07 Apr
AH-1W	163947	29 Mar	F-14B	161432	31 Mar	F/A-18A	163165	05 May
AH-1W	164595	29 Mar	F-14B	161434	08 Dec	F/A-18B	162870	21 Jul
AV-8B	161397	26 Jan	F-14B	161855	31 Mar	F/A-18B	163123	04 Jun
AV-8B	163424	20 Sep	F-14B	161873	06 Dec	F/A-18C	163473	31 Mar
AV-8B	163673	18 Oct	F-14B	162910	13 Oct	F/A-18C	163781	24 Mar
AV-8B	163677	18 Oct	F-14B	162911	11 Dec	F/A-18C	164269	28 Jun
AV-8B	165424	31 Mar	F-14B	162924	15 Sep	F/A-18C	164689	26 Mar
AV-8B	165426	01 Dec	F-14B	163215	29 Mar	F/A-18C	164904	14 Sep
AV-8B	165571	31 Mar	F-14B	163221	31 Mar	F/A-18C	165204	24 Mar
CH-46D	152563	10 Mar	F-14B	163222	04 Jun	F/A-18C	165226	09 Nov
CH-46D	153352	06 Feb	F-14B	163225	06 Aug	F/A-18D	163474	09 Sep
CH-46E	153372	08 Sep	F-14D	159595	02 Nov	F/A-18D	164005	16 Sep
CH-46E	153389	29 Nov	F-14D	159613	02 Nov	F/A-18E	165169	10 May
CH-53D	157131	02 Nov	F-14D	159628	16 Dec	HH-1N	158233	07 Dec
CH-53D	157141	02 Nov	F-14D	159630	02 Nov	HH-1N	158235	02 Nov
CH-53D	157155	16 Dec	F-14D	163418	02 Nov	HH-1N	158238	02 Nov
CH-53D	157158	16 Dec	F-14D	163894	29 Oct	HH-1N	158240	02 Nov
CH-53D	157742	13 Aug	F-14D	164344	29 Mar	HH-1N	158252	26 Oct
CH-53E	161181	02 Nov	F-14D	164604	16 Jul	HH-1N	160838	02 Nov
CH-53E	161532	02 Nov	F-5E	741519	13 Apr	HH-46D	150951	07 Jul
CH-53E	161533	02 Nov	F-5E	741529	20 Aug	HH-46D	150954	07 Jul
CH-53E	161538	07 Apr	F-5E	741531	20 Aug	HH-46D	150958	23 Jan
CH-53E	161539	02 Nov	F/A-18A	161928	07 Apr	HH-46D	151908	16 Dec
CH-53E	161540	02 Nov	F/A-18A	161946	07 Apr	HH-46D	151910	02 Nov
CH-53E	161542	02 Nov	F/A-18A	161955	28 Oct	HH-46D	151915	23 Jan
CH-53E	161543	02 Nov	F/A-18A	161956	01 Dec	HH-46D	151927	23 Jan
CH-53E	161990	02 Nov	F/A-18A	161965	07 Apr	HH-46D	151933	02 Nov
CH-53E	162492	29 Jan	F/A-18A	161970	20 Sep	HH-46D	151950	27 Sep
CH-53E	162519	29 Jan	F/A-18A	161979	07 Oct	HH-46D	151951	28 Jul
CH-53E	164782	11 Aug	F/A-18A	161983	06 Jan	HH-46D	151953	08 Jul
E-2C	161229	18 May	F/A-18A	161985	07 Apr	HH-46D	151955	15 Oct
E-2C	162618	02 Jun	F/A-18A	162401	02 Nov	HH-46D	152498	16 Dec
E-2C	162619	27 Sep	F/A-18A	162403	12 Jul	HH-46D	152501	31 Aug
E-2C	163026	02 Jun	F/A-18A	162407	02 Nov	HH-46D	152513	03 May
E-2C	163027	02 Jun	F/A-18A	162414	08 Sep	HH-46D	152522	23 Jan
E-2C	163028	02 Nov	F/A-18A	162414	08 Sep	HH-46D	152538	23 Jan
E-2C	163851	14 Apr	F/A-18A	162420	07 Apr	KC-130F	147572	16 Dec
E-2C	164484	25 Mar	F/A-18A	162424	07 Apr	KC-130F	148248	16 Dec
E-2C	166417	29 Mar	F/A-18A	162425	07 Apr	KC-130F	148898	23 Jan
EA-6B	159586	23 Mar	F/A-18A	162434	21 Apr	KC-130F	149800	16 Dec
ERA-3B	142668	06 Jul	F/A-18A	162440	23 Feb	KC-130F	149811	01 Jul
ERA-3B	144832	06 Jul	F/A-18A	162458	10 Jun	KC-130F	149816	02 Nov
ERA-3B	144838	01 Oct	F/A-18A	162830	07 Apr	MH-53E	162506	07 Apr
ERA-3B	144841	06 Jul	F/A-18A	162839	29 Mar	MH-53E	162516	16 Dec
F-14A	158637	06 Jan	F/A-18A	162853	10 Mar	MH-53E	163057	02 Nov
F-14A	159428	06 Jan	F/A-18A	162889	03 Aug	MH-53E	163058	07 Apr
F-14A	161168	07 Apr	F/A-18A	162892	02 Aug	MH-53E	163068	29 Jan
F-14A	161271	07 Apr	F/A-18A	162896	07 Apr	MV-22B	165437	13 Sep
F-14A	161275	29 Jul	F/A-18A	162900	12 May	MV-22B	165438	13 Sep
F-14A	161291	07 Apr	F/A-18A	163097	21 Jul	MV-22B	165439	13 Sep
F-14A	161295	02 Mar	F/A-18A	163097	21 Jul	NF-14A	160378	07 Apr
F-14A	161296	07 Apr	F/A-18A	163098	01 Aug	NP-3D	150524	22 Apr
F-14A	161621	07 Apr	F/A-18A	163117	11 Mar	NP-3D	158227	23 Jan
F-14A	161856	07 Apr	F/A-18A	163118	07 Apr	P-3C	156512	07 Apr
F-14A	161866	07 Apr	F/A-18A	163126	10 May	P-3C	156513	07 Apr
F-14A	162601	07 Apr	F/A-18A	163127	16 Dec	P-3C	156516	02 Nov

Aircraft	BuNo	Date	Aircraft	BuNo	Date	Aircraft	BuNo	Date
P-3C	156518	07 Apr	QF-4S	155561	24 Jul	T-2C	158897	07 Apr
P-3C	156520	27 Apr	QF-4S	155741	18 Aug	T-2C	158899	23 Jan
P-3C	156523	16 Dec	QF-4S	155845	12 Aug	T-2C	158900	07 Apr
P-3C	156524	07 Apr	QF-4S	157261	20 Apr	T-2C	158901	07 Apr
P-3C	156525	23 Jan	QF-4S	158359	27 Sep	T-2C	158903	02 Nov
P-3C	156526	07 Apr	QF-4S	158360	17 Aug	T-2C	158907	07 Apr
P-3C	156530	02 Nov	RA-3B	144843	06 Jul	T-2C	159161	07 Apr
P-3C	157311	06 Dec	RC-12M	163847	16 Dec	T-2C	159163	02 Nov
P-3C	157312	14 Dec	S-3B	158867	23 Jan	T-2C	159164	07 Apr
P-3C	157314	23 Jan	S-3B	159399	16 Dec	T-2C	159171	02 Nov
P-3C	157315	07 Apr	S-3B	159761	07 Apr	T-2C	159172	07 Apr
P-3C	157317	16 Dec	S-3B	159763	28 Oct	T-2C	159704	07 Apr
P-3C	157321	07 Apr	S-3B	159766	25 Mar	T-2C	159706	02 Nov
P-3C	157323	02 Nov	S-3B	159770	22 Jul	T-2C	159708	07 Apr
P-3C	157324	16 Dec	S-3B	160131	16 Dec	T-2C	159714	02 Nov
P-3C	157328	20 Dec	S-3B	160567	10 Aug	T-2C	159716	23 Jan
P-3C	158205	02 Nov	S-3B	160591	07 Apr	T-2C	159718	07 Apr
P-3C	158207	07 Apr	S-3B	160596	07 Apr	T-2C	159719	16 Dec
P-3C	158208	22 Jan	S-3B	160607	25 Mar	T-2C	159720	02 Nov
P-3C	158209	23 Jan	SH-3H	154117	07 Apr	T-2C	159721	07 Apr
P-3C	158211	07 Apr	SH-60B	162106	20 Aug	T-2C	159723	07 Apr
P-3C	158212	28 Jul	T-2C	156691	07 Apr	T-34C	160946	30 Jul
P-3C	158218	07 Apr	T-2C	156704	02 Nov	T-34C	162277	27 Aug
P-3C	158219	23 Jan	T-2C	156705	02 Nov	T-34C	162305	27 Aug
P-3C	158220	02 Nov	T-2C	156709	07 Apr	T-39G	158843	02 Nov
P-3C	158221	23 Jan	T-2C	156715	02 Nov	T-39G	159362	02 Nov
P-3C	158223	02 Nov	T-2C	156719	02 Nov	T-45C	165476	02 Jun
P-3C	158226	16 Dec	T-2C	156726	02 Nov	TA-3B	144856	01 Oct
P-3C	158565	02 Nov	T-2C	156733	02 Nov	TC-12B	161194	16 Dec
P-3C	158566	07 Apr	T-2C	157030	07 Apr	TC-12B	161199	16 Dec
P-3C	158569	14 Jun	T-2C	157033	07 Apr	TH-57C	162045	02 Nov
P-3C	158572	23 Jan	T-2C	157036	07 Apr	TH-57C	162667	02 Nov
P-3C	158913	23 Jan	T-2C	157054	02 Nov	TH-57C	162685	02 Nov
P-3C	158920	02 Nov	T-2C	157055	02 Nov	TH-57C	162686	02 Nov
P-3C	158931	16 Dec	T-2C	157058	06 Apr	TH-57C	162818	02 Nov
P-3C	158932	16 Dec	T-2C	157061	07 Apr	UC-12B	161186	02 Nov
P-3C	158933	02 Nov	T-2C	157062	02 Nov	UC-12B	161202	02 Nov
P-3C	159319	07 Apr	T-2C	157063	07 Apr	UC-12B	161308	02 Nov
P-3C	159321	07 Apr	T-2C	157064	07 Apr	UC-12B	161321	02 Nov
P-3C	159324	02 Nov	T-2C	157065	07 Apr	UC-12B	161322	16 Dec
P-3C	159327	07 Apr	T-2C	158314	02 Nov	UC-12B	161499	02 Nov
P-3C	159328	07 Apr	T-2C	158319	07 Apr	UC-12B	161516	02 Nov
P-3C	159505	07 Apr	T-2C	158331	07 Apr	UC-35D	165938	10 Mar
P-3C	159508	07 Apr	T-2C	158332	07 Apr	UH-1N	160174	23 Jan
P-3C	159509	07 Apr	T-2C	158333	07 Apr	UH-1N	160439	07 Oct
P-3C	159510	07 Apr	T-2C	158575	07 Apr	UH-3H	149711	23 Mar
P-3C	159511	07 Apr	T-2C	158577	07 Apr	UH-3H	149722	30 Sep
P-3C	159883	07 Apr	T-2C	158580	07 Apr	UH-3H	149728	27 Oct
P-3C	159890	07 Apr	T-2C	158584	23 Jan	UH-3H	149897	22 Apr
P-3C	159891	29 Jan	T-2C	158588	02 Nov	UH-3H	149899	17 Dec
P-3C	160289	07 Apr	T-2C	158591	02 Nov	UH-3H	149906	28 Jul
P-3C	161000	15 Jan	T-2C	158594	23 Jan	UH-3H	152135	20 Sep
P-3C	161003	02 Nov	T-2C	158596	06 Apr	UH-3H	152708	03 Nov
P-3C	161004	16 Dec	T-2C	158597	07 Apr	UH-3H	152709	02 Nov
QF-4N	151482	20 Jul	T-2C	158602	07 Apr	UH-3H	152710	22 Sep
QF-4N	153011	19 Aug	T-2C	158607	23 Jan	UH-3H	154101	22 Apr
QF-4N	153030	25 Aug	T-2C	158878	23 Jan	UH-46D	151903	28 Jul
QF-4S	153809	27 Sep	T-2C	158879	23 Jan	UP-3A	150495	07 Apr
QF-4S	153821	27 Sep	T-2C	158882	07 Apr	VH-3A	150611	22 Mar
QF-4S	153832	07 May	T-2C	158884	02 Nov	VH-3A	150613	21 Jan
QF-4S	153833	09 Sep	T-2C	158885	07 Apr	VP-3A	150496	17 Dec
QF-4S	153851	22 Sep	T-2C	158888	02 Nov	VP-3A	150515	16 Dec
QF-4S	155544	29 Mar	T-2C	158895	07 Apr			