

## ***October 2016 Fleet Upgrade & Replacement Catalog***

IHS4: DDG-1000 Destroyer equip w/ electric propulsion, 155 mm Advanced Gun [AGS] fires GPS-guide Long Range Land Attack Projectile [LRLAP]

IHS4: V-280 Valor tiltrotor aircraft equip w/ Pilotage Distributed Aperture System [PDAS] feature electro-optic/infrared [EO/IR] cameras

Flight Global: Scan Eagle UAV equip w/ electro-optical/infrared [EO/IR] sensor & visual detect/range [ViDAR] search capability to payload

USNI: MQ-9 Reaper UAV is armed, multi-mission, medium-altitude, long-endurance remotely piloted aircraft for intel-collect & target execute

IHS4: HDF-3000 Frigates equip w/ vertical launch system [VLS], 76 mm gun, torpedo, & sensors for anti-air, ASuW, ASW & Electronic Warfare

Popular Mechanics: MH-60S Seahawk helicopters equip w/ APKWS screw-on DIY kits convert 70mm unguided rocket into laser-guided ASuW missile

Air Force Times: AC-130J Ghost rider aircraft equip w/ 30mm/105mm cannons, AGM-176A Griffin missiles, Hellfire missiles & GBU-39 munitions

DefenceTalk: Typhoon aircraft equip w/ Meteor Beyond Visual Range Air-to-Air missile, Storm Shadow stand-off Air-to-Surface & Brimstone2 CAS

Defence Watch: FTI Frigate equip w/ NH90 helicopter feature FLASH dipping sonar system & MU90 torpedoes, CAPTAS-4 upgrade towed sonar system

Defence Aviation: Su PAK FA fighter jet replace Su-27s & MiG-31s w/ stealth capable, supersonic cruise & over-the-horizon radar visibility

Military Tech: P-8A Poseidon equip w/ APS-137D[V]5 & AN/APY-10 radar upgrades, signal intelligence SIGINT system for ASW, AsuW & ISR capable

DID: AGM-114L Longbow Hellfire equip w/ millimeter-wave radar seeker on AH-64D Apache Longbow helicopters & AH-1 Cobra attack helicopters

Defence Aviation: F-15 Silent Eagle equip w/ AIM-9 & AIM-120 air-to-air missiles & Joint Direct Attack Munition [JDAM] air-to-ground weapons

Military Tech: AH-1W helicopter equip w/ BGM-71 TOW & AGM-114 Hellfire missile, AIM-9L Sidewinder air-to-air missile & Hydra 70mm rockets

Defcon: Long Range Anti-Ship Missile [LRASM] w/ Mk41 vertical launch & multi-mode sensor fire from B-1B bomber & integrated on F-18s & ships

Defense News: F-16A/B aircraft Combat Avionics Extension Suite [CAPES] w/ Scalable Agile Beam Radar [SABR] replace APG-66[V]3 mechanic radar

Flight Global: F-15SG upgraded version of F-15E Strike Eagle w/ APG-63[V]3 active electronically scanned array radar & Sniper targeting pod

Defense News: Super Hornet enclosed weapons pod [EWP] carries AIM-9X Sidewinder, AIM-120 air-to-air missiles & AGM-154 joint standoff weapons

Military News: AH-64E Apache helicopters upgraded w/ Longbow Fire Control Radars & Modernised Target Acquisition Designation [M-TADS/PNVS]

Flight Global: F-16 Fighting Falcon upgrade to automatic ground collision avoidance system [GCAS] w/ digital terrain elevation data [DTED]

Military Tech: F/A-18C/D Hornet & F/A-18E/F Super Hornet aircraft fit w/ upgraded Paveway II dual mode laser guided bomb [DMLGB] guidance kit

Military Tech: Virginia-class Sub feature AN/WLY-1 acoustic countermeasures system & AN/BLQ-10 electronic support measures for ASW, ASuW & ISR

DID: MH-60R helicopter replace existing S-70B-2 & SH-2G Super Seasprite, provide capable to ANZAC Class frigates & Air Warfare Destroyers

## ***September 2016 Fleet Upgrade & Replacement Catalog***

Helihub: V-247 Vigilant tiltrotor UAV equip w/ sonar buoys, light detect/range [LiDAR] modules, MK-50 torpedo or Hellfire or JAGM missiles

Defence Talk: MQ-4C Triton UAS equip w/ Electro-Optical/Infrared [EO/IR], Electronic Support Measures [ESM] & Auto Identify System [AIS]

Defence Talk: Tu-160M2 Blackjack strategic bomber aircraft equip w/ long-range Kh-101/Kh-102 cruise missiles & NV1-70 phased-array radar

Popular Mechanics: AH-64 Apache helicopter equip w/ TADS target acquisition, helmet-steerable 30mm chain gun & Hellfire laser-guided missile

Flight Global: F-15C/D aircraft equip w/ infrared search/track [IRST] sensors detect engine heat & active electronic scan array [AESA] radar

Defence Talk: CVN 68 aircraft carrier equip w/ MK-38 25mm machine gun, MK-15 Phalanx Close-In Weapons System & .50-caliber machine guns

Defense Systems: DDG-1000 destroyer equip w/ AN/SPY-3 X-band multi-function radar, torpedoes, SM-2, Tomahawk & Evolved Sea Sparrow Missiles

USNI: LCS equip w/ 30mm guns, MQ-8B Fire Scout UAVs feature AN/ZPY-4[V]1 radar, MH-60S Seahawk helicopter & RGM-84 Harpoon anti-ship missile

Diplomat: Type 056A corvettes equip w/ YJ-83 anti-ship missiles, 76 mm main gun, 324 mm torpedo launchers & variable depth/towed sonars

Defcon: F/A-18 Super Hornet equip w/ AIM-9X sidewinder air-to-air missile, AIM120 Advanced Medium Range Air-to-Air Missile [AMRAAM] & Mk-84

Military Tech: F-16 aircraft ACES equip w/ ALR-93 radar warning receiver, ALQ187(V)2 jammer & ALE-47 countermeasures dispenser system

Flight Global: Typhoon upgrades include Litening targeting pod, IRIS-T short-range air-to-air missile integrate, Mode 5 ID & Meteor Missile

Military Tech: CH-53E Super Stallion helicopter equip w/ ATK AN/AAR-47 missile warning system, 0.50-calibre guns & AN/APN-217 Doppler radar

Military Tech: MiG-29K naval version of MiG-29 equip w/ RVV-AE & R-73E air-to-air, Kh-31A &-35E anti-ship & Kh-31P anti-radar missiles

Military Tech: MH-60R Seahawk helicopters equip w/ AGM-114 Hellfire antisurface missiles, ATK mk50 active torpedoes & 7.62mm machine gun.

Military Tech: LPD-25 equip w/ AN/SLQ-25A Nixie-towed decoy & mk53 launching system, ITT AN/SPS-48E 3D air search& AN/APQ-9B tracking radar

Military Tech: AH-64E Guardian replace AH-64D Longbow equip w/ joint tactical radio system, electro-optical & infrared [EO/IR] sensors

Military Tech: Advanced Precision Kill Weapon System [APKWS] rocket w/ laser tech fit on A-10 Thunderbolt, F-16 Fighting Falcon & F/A-18

Defcon: F-16 fighters equip w/ AGM-154C Joint Stand Off Weapon [JSOW] & AGM-84H Standoff Land Attack Missiles-Expanded Response (SLAM-ER)

Military Tech: Su-34 replace Su-24 Fencer w/ advanced multimode-phased array radar & long-range aiming system for land, sea & air targets

Defcon: MQ-8C Fire Scout VTOL drone upgraded version of MQ-8B equip w/ BRITE Star II electro-optical/Infrared sensor for laser designation

Military Tech: SharpEye radar w/both [X-band]& E/F-band [S-band] tech, electronic chart display& info [ECDIS], dualPPI &target detect [ETD]

Military Tech: Mi-17 helicopter upgrade version of Mi-8/Mi-17 w/ TV3-117BM turboshaft engines, large-calibre machine guns& unguided missiles

# August 2016 Fleet Upgrade & Replacement Catalog

Business Insider: DDG-1000 Destroyer equip w/ Vertical Launch Anti-Sub Rockets [ASROC] & Mk 57 tubes for Evolved Sea Sparrow, SM-2 Missiles

Real Clear Defense: LHA-7 Amphib equip w/ Rolling Aircraft Missile RIM-116 Mk 49 launch, 20mm Phalanx CIWS mount & twin .50 cal. machine gun

Flight Global: MQ-25 Stingray aircraft equip w/ ISR capabilities include signal intelligence [SIGINT], auto ID system [AIS] & EO/IR sensors

Business Insider: F-35B aircraft equip w/ Meteor air-air missile, Brimstone air-ground missile, AIM-120 AMRAAM & AIM-9 Sidewinder missile

IHS4: Type 056 corvettes equip w/ YJ-83 anti-ship missiles, 76 mm gun, lightweight torpedo launch & HQ-10 short-range surface-air missiles

Real Clear Defense: DDG-1000 destroyer equip w/ solid state laser feature multi-spectral target detect/track & advanced off-axis beam direct

Real Clear Defense: F-35B aircraft function as off-board sensor detect over-the-horizon threat relays signal to shore-based Aegis test-rig

Popular Science: J-15A Flying Shark Aircraft equip w/ WS-10 turbofan engines & Active Electronic Scan Array [AESA] radar for jam resistance

Defcon: CVN Aircraft Carrier & Amphib Assault LH Class ships equip w/ AN/SPN-50 [V1] replace AN/SPN-43C Traffic Radar for aircraft sequence

Military Tech: MH-60S helicopters equip w/ Carriage, stream, tow and recovery system [CSTRS] units for vertical replenish [VERTREP] & ASW

IHS4: UH-60M Black Hawks equip w/ AN/AAR-57 Common Missile Warning Systems, AN/AVR-2B laser detecting sets & GAU-19/A 12.7 mm Gatling guns

IHS4: UH-60M Black Hawk helicopters equip w/ AN/APR-39A[V]2 radar warning receivers & AN/ALQ-144A(V)1 infrared countermeasure sets

Military Tech: Typhoon aircraft equip w/ Captor-E AESA multi-mode pulse doppler radar [CAESAR] antenna for air surveillance & air-to-ground control

Military Tech: Ohio-class subs equip w/ ASDS, 533mm torpedo tubes w/ mk118 system, AN/BQQ-10(V4) sonar processing & BPS 15A I/J-band radar

Military Tech: P-3AM Orion equip w/ Fully integrated tactical system [FITS] & AGM-84 Harpoon Block II anti-ship missile for ASW & ASuW

Defence Aviation: F-15 Silent Eagle equip w/ AIM-9 & AIM-120 air-to-air missiles & Joint Direct Attack Munition [JDAM] air-to-ground weapons

Military Tech: F-16 Fighting Falcon Litening G4 advanced targeting pods equip w/ sensor, laser imaging & Forward-looking infrared [FLIR] links

Flight Global: F-16 equip w/ w/ active electronically scanned array [AESA] radar, Sniper target pod, JDAM, AIM-120 AMRAAM & AIM-9X Sidewinder

Military Tech: P-8A Poseidon equip w/ APS-137D(V)5 maritime surveillance radar & signal intelligence SIGINT system for ASW, ASuW & ISR

Military Tech: F-16 aircraft equip w/ AIM-9M CATMs, LAU-129 launchers, GBU-12 enhanced guided bomb units & AGM-65H/KB Maverick missiles

Military Tech: F-16s equip w/ EGPS/INS, AN/ALQ-131 elec. countermeasures, AIM-120C air-to-air missiles [AMRAAM] & AIM-9M sidewinder missiles

Military Tech: MH-47E Chinook equip w/ ATK AN/AAR-47 missile approach & APR-39A radar warners, ALQ-162 Shadowbox & ITT ALQ-136(V) jammers

# July 2016 Fleet Upgrade & Replacement Catalog

Real Clear Defense: S-70i Black Hawk helicopter equip w/ launchers for air-to-ground missiles, Hydra-70 rocket pod & rocket machine gun pod

Real Clear Defense: F-15C Eagle aircraft equip w/ active electronic scan array [AESA] radar, Passive Active Warning [EPAWSS] & target pods

Defence Talk: LCS equip w/ Harpoon HSLCLS 9/10 & Block 1C over-the-horizon anti-ship missile launch from surface ships, subs & aircraft

Diplomat: LHA amphib assault ship equip w/ rolling aircraft missile RIM-116 Mk 49 1 launch, 20mm Phalanx CIWS & twin .50 cal. machine guns

Real Clear Defense: J-20 aircraft equip w/ IR sensor, EO distributed aperture system [EODAS], air-air missiles [BVRAAM] & short-range AAMs

Real Clear Defense: Ka-52K Helicopter equip w/ 2A42-1 30mm auto cannon feature armour-piercing rounds & Kh-31/ Kh-35 air-to-surface missiles

HeliHub: AH-64E Apache helicopter equip w/ Brimstone missile feature dual-mode semi-Active Laser [SAL] & automatic mm Wave guidance modes

IHS4: Zephyr S/T UAS equip w/ electro-optical/infrared [EO/IR] sensor for ISR relay & synthetic aperture radar [SAR] collect radar signals

Flight Global: F-35A aircraft equip w/ GBU-31/GBU-12 munitions, AIM-120 AMRAAMs perform close air support, air defence interdiction/destroy

Defcon: Type 26 Global Combat Ships equip w/ Maritime Indirect Fire System [MIFS] includes 5-inch, 62-calibre Mark 45 Naval Gun System

Real Clear Defense: P-8I Neptune aircraft equip w/ AN/APY-10 ISR radar, Harpoon Block II anti-ship missiles & Mk 54 Mod 0 ASW torpedoes

DID: Large Aircraft IR Countermeasures [LAIRCM] auto protect rotary-wing aircraft vs. shoulder-fired, vehicle-launched & IR-guided missiles

Real Clear Defense: Tomahawk missile equip w/ semi-active seeker signal transmit from ship-based illuminator, also active electromagnet seek

Defcon: Skylark C mini-UAS equip w/ inertial navigate system [INS] & electro-optical [EO] payload w/ high-res thermal imager & fly-by-camera

Defence Talk: B-52 Stratofortress aircraft equip w/ Joint Attack Surface Standoff Missiles [JASSM] fired from Conventional Rotary Launcher

Real Clear Defense: DDG destroyers equip w/ SeaRAM anti-ship missile defense use Phalanx Block 1B sensors & Rolling Airframe Missile guide

Business Insider: MQ-9 Reaper remote piloted aircraft [RPA] equip w/ GBU-12 Paveway II laser-guide munitions & Hellfire air-ground missiles

Defense Tech: MQ-9 Reaper drone equip w/ multi-spectral target [MTS-C] electro-optical infrared [EO/IR] sensor to track ballistic missiles

USNI: Ford-class carrier equip w/ Enterprise Air Surveillance Radar [EASR] based on SPY-6 S-band Air & Missile Defense Radar [AMDR] tech

UK Defense Journal: P-8 Poseidon aircraft equip w/ torpedoes, depth charges, SLAM-ER missiles & Harpoon anti-ship missiles for ASW & AsuW

Defence Talk: Project 23560 Leader destroyer equip w/ VLS control by AESA radar for SS-N-27 Sizzler missile & 130-mm A-192 versatile gun

## *June 2016 Fleet Upgrade & Replacement Catalog*

Real Clear Defense: MV-22 Osprey aircraft equip w/ laser-guided 2.75in Hydra APKWS folding-fin rockets, FLIR targets, missiles & heavy guns

Defense News: AH-64E Apache helicopter equip w/ Brimstone 2 missile uses Modernized Target Acquisition Designate Sight & fire-control radar

Defcon: Predator C Avenger UAS equip w/ MS-177 Electro-optical/Infrared [EO/IR] sensor for ISR feature high-res image from standoff ranges

USNI: MQ-4C Triton UAV equip w/ AN/ZPY-3 radar for surface recon, EO/IR situation sensors & Auto ID system monitor ship recognition signals

Real Clear Defense: F/A-18 aircraft equip w/ MIDS Joint Tactical Radio, IR Search & Track [IRST], APG-79 Active Electronic Scan Array Radar

Real Clear Defense: F/A-18 aircraft equip w/ Joint Helmet-Mount Cueing System [JHMCS], APG-73 radar & LITENING precision target & ISR system

Real Clear Defense: F/A-18 aircraft equip w/ Advanced Targeting FLIR video sharing tech utilise electro-optical & infrared camera laser tech

Flight Global: Sea Lion transport helicopter equip w/ satellite communications, digital radios, ID friend-or-foe tech & 12.7mm machine guns

IHS4: AC-130 aircraft equip w/ Nemesis air-to-surface missile fired from airborne Common Launch Tubes [CLT] feature Height of Burst sensor

Flight Global: SpyLite Mini Unmanned Air Vehicle is man-portable w/ ground launch & auto field recovery in GPS-denied & jamming conditions

Defcon: Seagull Auto Unmanned Surface Vessel [USV] feature ASW configuration of high performance dipping sonar using single tube torpedoes

Real Clear Defense: Joint Light Tactical Vehicle [JLTV] equip w/ Ground-Based Air Defense Direct Energy On-the-Move [GBAD-OTM] laser cannon

Flight Global: AC-130J aircraft equip w/ Griffin & Hellfire missiles for kinetic capability & side-mount 30mm gun or laser for anti-SAM ops

IHS4: LCS equip w/ MQ-8B Fire Scout unmanned helicopter feature AN/ZPY-4[V]1 radar for auto surface search, detect, surveillance & tracking

Marine Times: MV-22 Osprey or CH-53E Super Stallion aircraft transport Fire Support System w/ 120mm Precision Extended Range Munition [PERM]

IHS4: SWS2 Self-propelled anti-aircraft gun/surface-to-air [SPAAG/SAM] system include PG99 35 mm anti-aircraft gun [AAG] & CS/SA1 twin AAG

USNI: CVN-78 carrier equip w/ Electromagnetic Aircraft Launch System [EMALS], dual-band, multi-function [MFR] & volume search radar arrays

Defense News: F-16V aircraft equip w/ SABR electronically scanned radar, Sniper advanced targeting pod, ground moving target indication

IHS4: Lynx tracked infantry fighting vehicle [IFV] equip w/ airburst-capable 35mm cannon, 7.62mm coaxial gun & dual anti-tank missile launch

Real Clear Defense: RQ-21A Blackjack UAS equip w/ EO/IR sensor, wide area surveillance, radar, electronic monitor & Skyhook retrieval system

IHS4: Type 054A frigates equip w/ YJ-83 anti-ship missiles & 32-cell vertical launch missile system for firing HQ-16 anti-air missiles

IHS4: Type 056 corvettes equip w/ Z-9 helicopter, YJ-83 anti-ship missiles, 76 mm gun, variable depth & towed sonars, torpedo launch tubes

IHS4: EYE09 UAS consist folding quadcopter & soldier-borne control unit in tube/pouch provide ISR w/ Payloads integrate detached mount unit

Defense News: Over-the-Horizon Radar [OTHR] detect at long ranges, do night ops at lower frequencies to reduce cruise missile cross section

Defense News: Highly-Mobile Artillery Rocket System [HIMARS] launch Army Tactical Missiles [ATACMS] & Guided multiple launch rockets [GMLRS]

# May 2016 Fleet Upgrade & Replacement Catalog

Defense News: MV-22 Osprey aircraft equip w/ Hellfire missile, laser-guided GBU-44/B Viper Strike munitions & lightweight AGM-176 Griffin

Flight Global: Blackwing tube-launched UAV launch from below/surface equip w/ mini EO/IR payload & select availability anti-spoofing module

Flight Global: Gripen C/D aircraft equip w/ Meteor beyond-visual-range air-air missile, GBU-39 munitions & IR recon pod & CAS mission link

Flight Global: AH-1Z Viper helicopter equip w/ AIM-9 Sidewinders, AGM-144 Hellfires, 20mm munitions, Mk-66 70mm rockets & laser-guided APKWS

Defcon: Gripen E aircraft equip w/ Active Electronic Scanned Array [AESA] radar, IR Search & Track [IRST] & Electronic Warfare [EW] suite

Flight Global: E2-D Advanced Hawkeye aircraft equip w/ Erieye search radar feature EO/IR sensor detect surface target, SAR for land target

USNI: Growler aircraft equip w/ ALQ-218 EW receiver, Next-Generation Jammer [NGJ] pod & Active Electronically Scanned Array radar [AESA]

USNI: Super Hornet aircraft equip w/ Integrated Defensive Electronic Countermeasures [IDECM] & Infrared Search & Track [IRST] sensor system

Flight Global: Laser directed energy weapon capability demo [LDEW-CD] feature laser alongside 20mm Gatling gun utilise FLIR to counter UAVs

Business Insider: AH-64E Apache helicopter equip w/ Hellfire missiles, 2.75mm rockets, 30mm chain gun rounds & radar frequency interferometer

Business Insider: AH-64E Apache attack helicopter equip w/ Manned-Unmanned Teaming [MUM-T] to control Shadow & Gray Eagle UAV sensor payload

Naval Tech: DDG-1000 destroyer equip w/ AN/SQS-60 hull-mount mid-frequency sonar, AN/SQS-61 high-frequency sonar & AN/SQR-20 tow array sonar

Naval Tech: DDG-1000 destroyer equip w/ AN/SPY-3 X-band active phased-array radar detect low-observe anti-ship cruise missile & fire control

Naval Tech: DDG-1000 Destroyer equip w/ 57mm mk110 close-in gun system [CIGS] & EO/IR sensor suite for 360° surveillance & gun fire control

Naval Tech: DDG-1000 destroyer equip w/ long-range land attack projectile [LRLAP] extend-range guide munition [ERGM], 155mm XM-982 projectile

Naval Tech: DDG-1000 destroyer equip w/ mk57 peripheral vertical launch [PVLS], Tomahawk missile, SM-3 missile & Sea Sparrow missile [ESSM]

USNI: Fast Response Cutter [FRC] equip w/ Rapid Obscuring System [ROSY], APG-81 AESA sensor & towed kite system w/ surface search radar & UAV

IHS4: V-22 Osprey & CH-47 Chinook rotorcraft equip w/ SPARC launch system for Spike Non-Line-of-Sight [NLOS] multi-purpose tactical missile

ISH4: Mine countermeasures vessel [MCMV] equip w/ Pointer cueing system, Mk 44 Miniguns & L111A1 [M2QCB] .50 calibre heavy machine guns

# April 2016 Fleet Upgrade & Replacement Catalog

Flight Global: V-22 Osprey aircraft equip w/ APQ-174 multi-mode radar for ISR, AAQ-27 forward-looking IR turret, APKWS & Griffin B missile

Flight Global: Tornado GR4 aircraft equip w/ Brimstone air-to-surface missile feature dual-mode seeker & insensitive munition rocket motor

Flight Global: F/A-18E/F Super Hornet aircraft equip w/ Harpoon Block II+ sea-skim, anti-ship missile & AGM-154 Joint Standoff Weapon [JSOW]

Flight Global: B-52H aircraft equip w/ Joint Direct Attack Munition [JDAM], AGM-158 Air-Surface Standoff Missile [JASSM] & ADM-160 MALD-J

USNI: Shortfin Barracuda Block 1A sub equip w/ Mk48 Mod 7 Common Broadband Advance Sonar System [CBASS] torpedo & AN/BYG-1 sub/surface track

USNI: C-130J aircraft equip w/ Intrepid Tiger electronic warfare pod provide jamming capable, also Hellfire, Griffin & Viper Strike missiles

USNI: C-130J aircraft equip w/ Harvest Hercules Airborne Weapons Kit [HAWK] include MX-20 sensor ball w/ laser designator on aircraft nose

Flight Global: F/A-18E/F Super Hornet aircraft equip w/ centreline fuel tank-mounted IR search & track [IRST21] sensor, IDECM Block IV & NGJ

Defense Tech: K-MAX helicopter equip w/ MX-10 tactical surveillance camera high-bandwidth datalink & APKWS 70mm laser-guided rocket system

Military News: P-8 Poseidon aircraft equip w/ digital magnetic anomaly detect, MK 54 torpedoes & AGM-84D Block 1C Harpoon anti-ship missiles

Military News: P-8 Poseidon aircraft equip w/ inverse synthetic aperture radar, active multi-static & passive acoustic sensor & EO/IR sensor

Defense Watch: Forward Looking Infrared Radar [FLIR] feature dual-band, mid-wave IR long-wave IR [MWIR/LWIR] focal plane array [FPA], optics

Diplomat: JF-17 aircraft equip w/ C-802A anti-ship missiles, anti-radiation missiles & twin launchers for MK-20, GBU-12, GBU-10 munitions

Diplomat: JF-17 aircraft equip w/ GSh-23-2 twin-barrel cannon, PL-5 short-range air-to-air missiles (AAM) & PL-12/SD-10B medium-range AAMs

Flight Global: B-52 aircraft equip w/ extend-range AGM-158 joint air-to-surface standoff missile [JASSM-ER] & ADM-160 decoy/jammer [MALD-J]

Flight Global: G550 active electronic scan array-integrate conformal early warn [CAEW] provide 360° airborne radar & gather electronic intel

IHS4: Spike short-range [SR] shoulder-launch precision-guide, fire & forget, disposable munition include stiff-necked un-cooled EO/IR seeker

Military Times: Mini Hit-to-Kill [MHTK] missile fired from Multi-Mission Launch [MML] vs. rockets, artillery & mortars using kinetic energy

Military Times: Indirect Fire Protection Capability Increment 2-Intercept used against UAS, cruise missiles, rockets, artillery & mortars

# March 2016 Fleet Upgrade & Replacement Catalog

Flight Global: TR-X UAS equip w/ ASARS-2B advanced synthetic aperture radar & MS-177 multi-spectral imaging sensors for high-altitude ISR

Flight Global: HH-60G Pave Hawk helicopter equip w/ Laser detection & ranging [LADAR] system integrated into modified AAQ-29 FLIR turret

Flight Global: U-2S aircraft equip w/ Dragon Fly modem, SYERS-2 optical sensor & MS-177 scanning feature for beyond-line-of-sight info relay

Flight Global: B-2 aircraft equip w/ Counter-electronics High-power microwave Advanced Missile project [CHAMP] integrates w/ AGM-158B JASSM

IHS4: F-16 aircraft equip w/ AN/AAR-60[V]2 Missile Launch Detect Fighter [MILDS F] feature passive image sensor detect missile UV radiation

USNI: H930 Modular Combat System feature 3D phase array radar, Mk. 48 VLS, Electronic Warfare system, sonar & rapid-fire 5' /L62 cannon

Flight Global: F/A-18 aircraft equip w/ AGM-88E Advanced Anti-Radiation Guided Missile [AARGM] multi-mode seek feature millimetre wave radar

Defense News: Tornado aircraft equip w/ BriteCloud anti-missile countermeasures decoy feature digital radio frequency memory [DRFM] jammer

Flight Global: AH-1Z Viper helicopters equip w/ turret-mount M197 20mm cannon, Hellfire missiles, AIM-9 Sidewinders or 70mm & 127mm rockets

Defcon: Rafale aircraft equip w/ Searchmaster nose-mounted active electronic scanning antenna [AESA] for ASW, ASuW & tactical air support

Diplomat: AH-64E helicopter equip w/ Stinger Block I-92H air-air light missile feature fire & forget passive IR focal plane array seeker

Helihub: CMV-22B Osprey aircraft variant equip w/ extended range, high freq beyond line-of-sight radio for carrier on-board delivery mission

Helihub: MQ-8C Fire Scout unmanned helicopter provide real-time ISR, target-acquisition & laser designation w/o rely on space-based assets

Defense News: Patroller tactical UAV equip w/ two payload capacity either EO/IR/laser capable w/ radar or signals intel system w/o radar

USNI: DDG-51 Flight III destroyer equip w/ active electronic scan array [AESA] SPY-6 Air Missile Defense Radar [AMDR] replace SPY-1D radar

Defcon: Amphibious Assault Vehicle [AAV] AAV7A1 Reliable, Available & Maintain/Rebuild to Standard [RAM/RS] used for troop, cargo transport

Defense News: Anti-Submarine Warfare Continuous Trail Unmanned Vessel [ACTUV] operated by Sparse Supervisory Control used as LCS extension

Diplomat: F-35 aircraft equip w/ precision-guided GBU-39/B Small Diameter glide Bomb Increment I [SDB I] used for close-air support missions

# February 2016 Fleet Upgrade & Replacement Catalog

Flight Global: F-16 aircraft equip w/ ALQ-211 advanced integrated defensive EW suite [AIDEWS] include radar warning receiver & radio jammer

Marine Corps Times: Marine Corps RQ-21A Blackjack unmanned aircraft equip w/ air vehicles, ground control systems, launch & recovery support

Flight Global: P-8A ASW aircraft equip w/ active electronically scanned array [AESA] modified version of APS-154 Advanced Airborne Sensor

IHS4: Mi-17V-5 helicopters equip w/ EW suite feature radar warning receivers [RWR], missile approach warning systems [MAWS] & CM dispense

Defense News: F-16 aircraft equip w/ Joint Helmet Mounted Cueing System, AN/APG-68[V]9 radars & ALQ-211[V]9 Advanced Integrate EW Suites

Defense News: ASN-209 medium altitude & endurance [MAME] UAV equip w/ Thunder Lighting TL-2 models KD-88 precision-guide air-surface missile

Flight Global: GlobalEye Airborne early warning & control [AEW&C] aircraft equip w/ AESA & C2 system, electronic support & SIGINT system

Defense News: L-15 Falcon attack/fighter/train [AFT] aircraft equip w/ HF-18D rocket launch, 250kg LS-6 & 500kg LS-6 laser-guided munitions

Defense News: L-15 Falcon attack/fighter/train [AFT] aircraft equip w/ KG600 jamming pod & SD-10 self-guided medium range air-air missile

Defcon: M109A2/A3 howitzer equip w/ Excalibur Ib precision-guided, extended-range projectiles for first-round, fire-for-effect capabilities

Flight Global: MQ-9 Reaper UAV equip w/ AGM-114 Hellfire precision-guided missiles, Lynx multi-mode SAR & EO/IR multi-spectral target sensor

Flight Global: Swordfish Maritime Patrol System [MPS] equip w/ C4 system, radar, electro-optic & acoustic sensors integrate torpedo armament

Defense News: F-330 fixed-wing UAV equip w/ Electro-optical/Infrared [EO/IR] camera, SIGINT & ELINT systems & multi/hyper spectral camera

Defense News: Combat Hawk aircraft equip w/ short-range air-air missile & Brimstone air-launch ground attack missile for armed recon & CAS

Flight Global: RQ-4B Global Hawk aircraft equip w/ MS-177 multispectral sensor replace Senior Year Electro-optical Recon System-2 [SYERS-2]

Defcon: DDG-78 guided-missile destroyer equip w/ SeaRAM missile system combine CIWS sensor w/ 11-round Rolling Airframe Missile[RAM] launch

Military Times: AH-64 Apache helicopter equip w/ twin-engine, Hellfire laser-designated missiles, 30mm M230 chain gun & Hydra 70 rockets

Flight Global: AW101 Merlin helicopter equip w/ door-mount .50cal machine gun & 7.62mm light machine gun for assault mission troop transport

Flight Global: Typhoon aircraft equip w/ Praetorian defence system include missile warning receivers, electronic CM & towed radar decoys

IHS4: CH-47 Chinook Helicopters transport Fox Rapid Reaction Vehicles [RRV] equip w/ 12.7mm heavy machine gun & 40mm auto grenade launcher

Flight Global: F-16 V-model configuration aircraft equip w/ scalable agile beam radar, JDAM precision-guided weapons & Sniper targeting pod

USNI: Littoral Combat Ship [LCS] equip w/ 30 mm & 57 mm guns, SeaRAM anti-ship missile defence system & small rigid-hull inflatable boats

Flight Global: F-35 aircraft equip w/ AIM-9X heat-seeking passive IR missile upgrade to radar-guided AIM-120 AMRAAM, susceptible to jammers

# January 2016 Fleet Upgrade & Replacement Catalog

HeliHub: MH-60R helicopter equip w/ Multi-spectral target systems [MTS] include electro-optic, forward-looking, infra-red, turreted sensor

Flight Global: Gripen aircraft equip w/ Raven ES-05 active electronic scanned array radar [AESA] & Skyward-G IR search/track passive sensor

Flight Global: Apache AH-64E helicopter equip w/ Arrowhead Modern target acquisition designate sight/pilot night vision sensor [M-TADS/PNVIS]

Flight Global: F/A-18 Super Hornet aircraft equip w/ long-range anti-ship missile [LRASM] derivative of AGM-158B air-surface cruise missile

IHS4: MD530F Cayuse Warrior helicopter equip w/ M260 launch for 70mm [2.75 inch] rockets, 12.7mm .50 cal Heavy Machine Gun Pods [HMP] & MCAS

Flight Global: MD530F Cayuse Warrior helicopter equip w/ .50 cal gun pods, 2.75 inch rockets, ballistic protect & fixed-forward sight system

USNI: Littoral Combat Ship [LCS] equip w/ Vertical launch system cells & TRS-4D active electronically scanned array [AESA] air search radar

Flight Global: B-52 aircraft equip w/ rotary launch for JDAM, Joint air-surface standoff missiles [JASSM-ER] & mini air-launch decoys [MALD]

HeliHub: AH-1Z Cobra Helicopter equip w/ Target Sight System [TSS] include target ID & track, Hellfire missiles & laser-designate/guide

Military Tech: MQ-9 Reaper UAS equip w/ laser-guide range find for Paveway II & GBU-38 JDAM munitions, air-ground AGM-114 Hellfire missiles

Military Tech: Gray Eagle UAS equip w/ Auto Takeoff & Land [ATLS], EO/IR laser designate, synthetic aperture radar [SAR] & Hellfire missiles

Military Tech: Predator C Avenger aircraft equip w/ Hellfire missiles, GBU-12/49, GBU-31, GBU-32, GBU-38 JDAM, GBU-39 & GBU-16/48 munitions

Military Tech: MQ-8B Fire Scout VTOL aircraft equip w/ Hellfire missiles, Viper Strike laser-guided glide, APKWS & 70mm folding-fin rocket

Flight Global: Tiger Mk3 helicopter equip w/ laser designator, Link 16 datalink, Blue Force Track system, Trigat & Rafael Spike munitions

Flight Global: Tiger Mk3 helicopter equip w/ AGM-114 Hellfire air-surface/anti-tank missiles, 68mm or 70mm rockets & IFF Mode 5

Defense News: F-16 aircraft equip w/ WGU-43CD2/B Guidance Control Units, Vulcan Rotary 20mm cannon, LGB Paveway II, MK-82 & MK-84 munitions

Defense News: F-16 aircraft equip w/ Joint Helmet Mounted Cueing System [JHMCS], AIM-9M Sidewinder missile & AGM-65D/G/H/K Maverick missile

IHS4: HH-101A Caesar helicopter equip w/ M134 7.62 mm Gatling guns, EW system & missile-launch detect for self-protect vs. radar, laser & IR

Flight Global H225M helicopter equip w/ HForce system feature MX-15/20 EO/IR target sensor, 12.7mm gun, 20mm cannon & 70mm unguided rockets

Defence Talk: T-72B battle tank equip w/ anti-aircraft machine gun, digital radio station R-181-50VU Rhapsody & navigate system GLONASS/GPS

Defence Talk: T-72B battle tank equip w/ multi-channel gunner sight Sosna-U fire control system & PNK-4S-01 observation & sighting system

Defcon: M1126 Stryker APC equip w/ M153 Protector Common remotely-operated weapon station [CROWS] for 0.50-calibre M2 & M240B machine guns

Defense News: Armoured 8x8 modular vehicle [AMV] equip w/ remote weapon station, 12.7mm machine guns & 40mm automatic grenade launchers