List of Acronyms

The following is a list of alphabetical acronyms & abbreviations common to the unmanned systems field.

AASLS: Autonomous Analytical Scientific Laboratory at Sea.
ACCS: Army Command and Control System (US)/Air Command and Control System (NATO)
Accel: Acceleration
ACK: Acknowledge
ACM: Airspace Control Means
ACO: Airspace Control Order
ADatP-3: Allied Data Publication â€" 3
ADS: Automatic Dependent Surveillance
ADT: Air Data Terminal
ADU: Air Defense Unit
AGL: Above Ground Level
AGVT: Advanced Ground Vehicle Technology
AMHC: Autonomous Marine Handling Craft
AMHS: Autonomous Marine Handling System
AMRS: Autonomous Marine Refueling System
AMDN: Autonomous Mine Detection and Neutralization
AMPS: Aviation Mission Planning System
AMPN: Amplification
ANSI: American National Standards Institute
AoA: Analysis of Alternatives
AOA: Angle Of Attack
AOI: Area Of Interest
AP: Allied Publication/Alliance Publication
API: Application Program(ming) Interface
ASCII: American Standard Code for Information Interchange
ASM: Air Space Management
ASV: Advanced Surface Vehicles
ASW: Anti-Submarine Warfare
ATC: Air Traffic Control
ATP: Allied Tactical Publication
ATR: Automatic Target Recognition
ATS: Air Traffic Services
AHRS: Attitude & Heading Reference System
AUB: Autonomous Unmanned Boat
AUV: Autonomous Unmanned Vehicles
BDA: Battle Damage Assessment
BER: Bit Error Rate
BIT: Built-in-Test
BITE: Built-in-Test Equipment

BLOS: Beyond Line of Sight
BOM: Bit-Oriented Message
C2/C & C: Command and Control
CBIT: Continuous Built-in-Test
CCI: Command & Control Interface
CCISM: Command and Control Interface Specific Module
CDL: Common Data Link
CEN: European Standardization Organization
CEP: Circular Error Probability
CFOV: Centre Field of View
CG: Centre of Gravity
CGS: Common Ground Segment/Common Ground Station/Common Ground System
CIRC: Circular
CJTF: Combined Joint Task Force
COA: Certificate of Authorization. A FAA approval for a UAV flight
COE: Common Operating Environment
CONOPS: Concept of Operations
COP: Common Operational Picture
COTS: Commercial-Off-The-Shelf
CR: Communications Relay
CRD: Common Route Definition
CRT: Cathode Ray Tube
CUCS: Core UAV Control System
DC: Direct Current
DCE: Distributed Computing Environment
DCM: Data Link Control Module
DIGEST: Digital Geographic Information Exchange Standard
DII: Defense Information Infrastructure
DII/COE: Defense Information Infrastructure/Common Operating Environment
DL: Data Link
DLI: Data Link Interface
DoD: Department of Defense
DTED: Digital Terrain Elevation Data
ECM: Electronic Counter Measures
EFI: Electronic Fuel Injection
EIA: Electronic Industries Association
EIA/IS: EIA Interim Standard
EKF: Extended Kalman Filter
ELINT: Electronic Intelligence
EMCON: Emission Control
EMP: Electromagnetic Pulse
EO: Electro-Optical
EO/IR: Electro Optical/Infrared
EP: External pilot
ERF: Ego-Referenced Frame

ERS: Emergency Recovery System
ESM: Electronic Support Measures
ETA: Estimated Time of Arrival
ETSI: European Telecommunications Standards Institute
EW: Electronic Warfare
FASST: Futaba Advanced Spread Spectrum Technology
FHSS: Frequency-Hopping Spread Spectrum
FLIR: Forward Looking Infrared
FOB: Forward Operations Base
FOV: Field of View
FTP File Transfer Protocol
GCS: Ground Control Station
GDT: Ground Data Terminal
GMT: Greenwich Mean Time
GMTI: Ground Moving Target Indicator
GNC: Guidance Navigation System
GNSS: Global Navigation Satellite System
GOTS: Government Off-The-Shelf
GPS: Global Positioning System
GUI: Graphical User Interface
HALE: High Altitude, Long Endurance
HCI: Human Computer Interface
HF: High Frequency
HIS: Hyperspectral Imagery
HL: Hand Launched
Hz: Hertz, cycles per second
I/O: Input/Output
ICAO: International Civil Aviation Organization
ID: Identification
IDD: Interface Design Description/Interface Definition Document
IEA: Information Exchange Agreements
IEC: International Enterprise Committee/International Electro technical Commission
IEEE: Institute of Electrical and Electronics Engineers
IER: Information Exchange Requirements
IES: Imagery Exploitation System
IETF: Internet Engineering Task Force
IFF: Identification Friend or Foe
IL: Image Library
iMOC: Integrated Mobile Operational Command
INS: Inertial Navigation System
IP: Internet Protocol/Internal Pilot
IR: Infrared
IRS: Interface Requirements Specifications
ISAR: Inverse Synthetic Aperture Radar
ISDN: Integrated Services Digital Network

ISG: Industry Support Group
ISO: International Organization for Standardization
ISO/CD: Committee Draft of ISO
ISO/DIS: Draft International Standard of ISO
ISR: Intelligence, Surveillance, Reconnaissance
ISTAR: Intelligence, Surveillance, Target Acquisition and Reconnaissance
ITAR: International Traffic in Arms Regulations
ITDP: International Technology Demonstration Program
ITU: International Telecommunication Union
ITU-T(SB): International Telecommunications Union â€" Telecommunications
(Standardization Bureau)
JAUS: Joint Architecture for Unmanned Systems
JFACC: Joint Force Air Component Commander
JFC: Joint Force Commander
JPEG: Joint Photographic Experts Group
JSH: JASA Standards Handbook
JSWG: JASA Standards Working Group
JTA: Joint Technical Architecture
JTF: Joint Task Force
JTFC: Joint Task Force Commander
L&R: Launch and Recovery
L-16: Link-16 (TADIL-J message standard)
LIDAR: Light Detection and Ranging
LAN: Local Area Network
LAS: Laboratory at Sea
LB: Land-Based
LCD: Liquid Crystal Display
LCS: Littoral Combat Ship
LOI: Level of Interoperability
LOS: Line of Sight
LRF: Laser Range Finder
MAC: Medium Access Control
MAV: Micro Air Vehicle
MGRS: Military Grid Reference System
MHC: Marine Handling Craft
MHS: Marine Handling System
MIJI: Meaconing, Intrusion, Jamming, and Interference
MIL: Military
MIL-STD: Military Standard
MIME: Multipurpose Internet Mail Extension
MIN: Minimum
MIO: Maritime Interdiction Operations Support
MMP: Modular Mission Payload
MMS: Manufacturing Messaging Specification
MOA: Memorandum of Agreement

MOC: Mobile Operational Command
MOTS: Military Off-The-Shelf
MOU: Memorandum of Understanding
MP: Mission Planning/Mission Planner
MPO: Mission Planning Operator/Mission /Payload Operator
MPS: Meters per second
MR: Marine Robotics
MSE: Mobile Subscriber Equipment
MSI: Multi-Spectral Imagery
MSK: Minimum Shift Keying
MSL: Mean Sea Level
MTF: Message Text Formats
MTI: Moving Target Indicator
NATO: North Atlantic Treaty Organization
NBC: Nuclear, Biological and Chemical
NIR: Near Infrared
NITF: National Imagery Transmission Format
NITF: National Imagery Transmission Format Standard
NIST: National Institute of Standards and Technology
NRT: Non-Real Time
NSE: Non Standard Equipment
NSW: Naval Special Warfare
NTF: Network File Server
NTSC: National Transmission Standards Committee
NUMS: Network of Unmanned Systems
OARS: Operator-Aided Autonomous Recovery Systems
OAS: Obstacle Avoidance Software
OCU: Operator Control Unit
OPFOR: Opposing Force
OPS: Operations
OSE: Open System Environment
OSI: Open System Interconnection (model)
OTH: Over The Horizon
OTH-T: Over The Horizon â€" Targeting
PDU: Power Distribution Unit
PG/35: Project Group 35
PTO: Power Take-Off
PMU: Power Management Unit
PO: Payload Operator
Pyld: Payload
Rad: Radians
RAID: Redundant Array of Inexpensive/Independent Disks
RECCEXRE: Reconnaissance Exploitation Report
RF: Radio Frequency
RFC: Request for Comment

RMMV: Remote Multi-Mission Vehicle
ROS: Relief on Station/Rules of Safety
RP: Route Plan
RPAS: Remotely Piloted Aircraft Systems
Rpt: Report
RT: Real Time
RTP: Real Time Protocol/ Real Time Processor
Rx: Receive
SA: Situational Awareness
SALUTE: Size, Activity, Location, Unit, Time, Equipment
SAR: Synthetic Aperture Radar/Search And Rescue
SATCOM: Satellite Communications
SB: Sea-based
SEC: Seconds
SED: Signal External Descriptor
SIGINT: Signals Intelligence
SINCGARS: Single Channel Ground and Airborne Radio System
SMPTE: Society of Motion Picture and Television Engineers
SMTP: Simple Mail Transfer Protocol
SNR: Signal to Noise Ratio
SOF: Special Operations Forces Support
ST: Specialist Team
STANAG: (NATO) Standardization Agreement
SUW: Surface Warfare
TBD: To Be Defined
TCDL: Tactical Common Data Link
TCP/IP: Transfer Control Protocol/Internet Protocol
TCU: Tactical Control Unit
Tgt: Target
TX: Transmit
UAASLS: Unmanned Autonomous Analytical Scientific Laboratory at Sea
UAS: Unmanned Aircraft Systems
UAV: Unmanned Aerial Vehicle/Uninhabited Aerial Vehicle
UB: Unified Build
UCAV: Unmanned/ Uninhabited Combat Aerial Vehicle
UDP: User Datagram Protocol
UES: UAV Exploitation System
UGV: Unmanned Ground Vehicle
USV: Unmanned Surface Vehicles
USSV: Unmanned Sea Surface Vehicles
UHF: Ultra High Frequency
UI: User Interface
UJTL: Universal Joint Task List
UPS: Uninterruptible Power Supply
URL: Uniform Resource Locator

USIS: United States Imagery Standards
USMTF: United States Message Text Formatting
UTC: Universal Time Coordinated
UTM: Universal Transverse Mercator
UUV: Unmanned Underwater Vehicle
VCR: Video Cassette Recorder
VDL: VHF Data Link
VDU: Visual Display Unit
VHF: Very High Frequency
VISP: Video Imagery Standards Profile
VMAP: Vector Map
VMF: Variable Message Format
VNIR: Visible Near Infrared
VSM: Vehicle Specific Module
VTOL: Vertical Take-Off and Landing
WAN: Wide Area Network
WAS: Wide Area Subsystem
WGS-84: World Geodetic System â€" 84
WIMP: Windows, Icons, Mouse and Pull-down/pop-up (menus)
WP: Waypoint
WRF: World-Referenced Frame
XML: Extended Mark-up Language

NOAA UAS Specific

ACTD	Advanced Concept Technology Demonstration
AFRC	Armstrong Flight Research Center
AOA	Analysis of Alternatives
AVAPS	Airborne Vertical Atmospheric Profiling System
AV-6	NASA ACDT Global Hawk, Air Vehicle 6
AWIPS	Advanced Weather Interactive Processing System
CIRA	Cooperative Institute for Research in the Atmosphere
CIRES	Cooperative Institute for Research in Environmental Sciences
CPL	Cloud Physics Lidar
CONOPS	Concepts of Operation
DMP	Data Management Plan
ECMWF	European Center for Medium range Weather Forecasting
EDMF	Environmental Data Management Framework
ENRR	El Nino Rapid Response
EPOCH	East Pacific Origin and Characteristics of Hurricanes
GHOC	Global Hawk Operations Center
GRIP	Genesis and Rapid Intensification Processes
GTS	Global Telecommunications System

HALE	High Altitude, Long Endurance
HAMSR	High Altitude MMIC Sounding Radiometer
HIRAD	Hurricane Imaging Radiometer
HIWRAP	High-altitude Imaging Wind and Rain Profiler
HRR	Hurricane Rapid Response
HS3	Hurricane and Severe Storm Sentinel
HWRF	Hurricane Weather Research and Forecasting
JPL	Jet Propulsion Laboratory
JPSS	Joint Polar Satellite System
LIP	Lightning Instrument Package
MADIS	Meteorological Assimilation Data Ingest System
MMIC	Monolithic Microwave Integrated Circuit
MTS	Mission Tool Suite
MUM-T	Manned-Unmanned Teaming
NASA	National Aeronautics and Space Administration
NEIS	NOAA Earth Information System
NHC	National Hurricane Center
NOAA	National Oceanic and Atmospheric Administration
NRL	Naval Research Laboratory
NWP	Numerical Weather Prediction
OAR	Office of Oceanic and Atmospheric Research
OMAO	Office of Marine and Aviation Operations
ONR	Office of Naval Research
OSE	Observing System Experiment
OSSE	Observing System Simulation Experiment
QA	Quality Assurance
S-HIS	Scanning High-resolution Interferometer Sounder
SHOUT	Sensing Hazards with Operational Unmanned Technology
TCI	Tropical Cyclone Intensity
TRL	Technology Readiness Level
UAS	Unmanned Aircraft Systems
USAF	United States Air Force
WFF	Wallops Flight Facility
WISPAR	Winter Storms and Pacific Atmospheric Rivers

NOAA Cooperative Institutes

CIFAR: **Cooperative Institute for Arctic Research (CIFAR), Fairbanks, AK**

CICAR: **Cooperative Institute for Climate Applications and Research (CICAR), Columbia University, Palisades, NY**

CINAR: **Cooperative Institute for the North Atlantic Region (CINAR), Woods Hole**

Oceanographic Institution, Woods Hole, MA

CICS-P: [**Cooperative Institute for Climate Science (CICS-P)**](), **Princeton University, Princeton, NJ**)

CICS-M: [**Cooperative Institute for Climate and Satellites (CICS-M)**](), **University of Maryland**

CILERS: [**Cooperative Institute for Limnology and Ecosystems Research (CILER**]()) **University of Michigan, Ann Arbor, MI**

CIMAS: [**Cooperative Institute for Marine and Atmospheric Studies (CIMAS)**](), **University of Miami, Miami, FL**

CIMMS: [**Cooperative Institute for Mesoscale Meteorological Studies (CIMMS)**](), **University of Oklahoma, Norman, OK**

CIRA: [**Cooperative Institute for Research in the Atmosphere (CIRA)**](), Colorado State University, Fort Collins, CO

CIRES: [**Cooperative Institute for Research in Environmental Sciences (CIRES**]()), **University of Colorado, Boulder, CO**

JIMAR: [**Joint Institute for Marine and Atmospheric Research (JIMAR**]()), **University of Hawaii, Honolulu, HI**

JIMO: [**Joint Institute for Marine Observations (JIMO)**](), **La Jolla, CA**

JISAO: [**Joint Institute for the Study of the Atmosphere and Ocean (JISAO**]()), **Seattle, WA**

NGI: [**Northern Gulf Institute (NGI)**](), **Mississippi State University, MS**