

Acronyms Compiled by UAVM.com

AATT	Advanced Air Transport Technologies Project
ACES	Airspace Concept Evaluation System
ADS-B	Automatic Dependant Surveillance Broadcast
AFRL	Air Force Research Laboratory
AIAA	American Institute of Aeronautics and Astronautics
AMDAR	Aircraft Metrological Data Relay
A-NPA	Interim Advanced Notice of Proposed Amendment (EASA–EuroControl)
ASC/RA	Aeronautical Systems Center / Reconnaissance Aircraft
ARC	NASA Ames Research Center
ARSR	Air Route Surveillance Radar
ARTCC	Air Route Traffic Control Center
ASEB	Aeronautics and Space Engineering Board
ATARS	Advanced Tactical Airborne Reconnaissance System - MIL
AuRA	Autonomous Robust Avionics – A NASA project intended to enable aircraft to fly with reduced or no human intervention, to optimize flight over multiple regimes, and to provide maintenance on demand towards the goal of a feeling, seeing, sensing, sentient air vehicle. http://avst.larc.nasa.gov/projects_aura.html
AVOSS	Aircraft Vortex Spacing System
AvSTAR	Aviation System Technology Advanced Research
BRIMS	Behavioral Representative in Modeling and Simulation
cm	centimeter
C	a frequency sub-band
C ³ Z	Command, Control, Communication, and Information
CDDC	Centralized Decision Making Distributed Control
CIRPAS	Center for Inter-Disciplinary Remotely Piloted Aircraft Studies
CNS	Communication, Navigation, and Surveillance

COTS	Commercial off The Shelf
CO2	Carbon dioxide
COA	Certificate of Authorization – FAA Waiver for UAV Airspace Operations
CW	Continuous Wave
DAG	Distributed Air Ground
DFAR	Defense Federal Acquisition Regulations
DHS	Department of Homeland Security
DOD	Department of Defense
DOE	Department of Energy
DOI	Department of the Interior
DSA	Detect See and Avoid
DST	Decision Support Tool
EASA	European Aviation Safety and Environmental Protection Agency
EO	Electro-Optical
EOS	Earth Observing System – EOS is composed of a series of satellites, a science component, and a data system supporting a coordinated series of polar-orbiting and low inclination satellites for long-term global observations of the land surface, biosphere, solid Earth, atmosphere, and oceans. http://eosps0.gsfc.nasa.gov/
EPA	Environmental Protection Agency
ESCD	Earth Sciences Capability Demonstration
ETL	Environmental Technology Laboratory
EuroControl	Primary European Union Air Traffic Regulatory Agency
EURO UAV JCB	European UAV Industry Consultation Body
FAA	Federal Aviation Administration
FAR	Federal Acquisitions Regulation
FARGO	Flight-Deck Automation for Reliable Ground Operation
FCS	Flight control system

FEMA	Federal Emergency Management Agency
FINAS	Flight In National Airspace (NATO Membership)
FOPEN	Foliage Penetration – UHF/VHF SAR (Synthetic Aperture Radar) - MIL
ft	feet
FII	Frequency Domain Interferometer Imaging
FMCW	Frequency Modulated Continuous Wave
FMS	Flight management System
FTIR	Fourier Transform Infrared – An analytical technique used to identify organic and inorganic materials which measure the absorption of various infrared light wavelengths by the material of interest. These infrared absorption bands identify specific molecular components and structures. http://www.meeinc.com/ftir.html
FY	Fiscal Year
GHz	Giga-Hertz
GIFTS	Geostationary Imaging Fourier Transform Spectrometer – This satellite uses an Imaging Fourier Transform Spectrometer to observe atmospheric temperature, water vapor content and distribution, and the concentration of certain other atmospheric gases present at a given altitude over time http://oea.larc.nasa.gov/PAIS/GIFTS.html
GLONAS	Globalnaya Navigacionaya Sputnikovaya Sistema
GOMS	Goal, Operators, Methods, and Selection
GPM	Global Precipitation Measurement – This science mission has the goals of improving the accuracy of climate predictions, providing more frequent and complete sampling of the Earth's precipitation and increase the accuracy of weather and precipitation forecasts http://gpm.gsfc.nasa.gov/index.html
GPS	Global Positioning System
GRC	NASA Glenn Research Center
GUI	Graphical User Interface
HALE	High Altitude Long Endurance
HLA	High Level Architecture
hr	hour

Hz	Hertz
ICAT	International Center for Air Transportation – Massachusetts Institute of Technology (MIT)
ICE	Immigration and Customs Enforcement
IEEE	Institute of Electrical and Electronics Engineers, Inc.
IFR	Instrument Flight Rules
IFSAR	Interferometric Synthetic Aperture Radar - MIL
IMU	Inertial Measurement Unit
iNet	Integrated Network Enhanced Telemetry
IR	Infra-Red band of the wavelength spectrum
ISR	Intelligence, Surveillance, and Reconnaissance
ITAS	Integrated Tailored Aero Structures
JAA	Joint Airworthiness Authority
J-UCAS	Joint Unmanned Combat Air System
K	a frequency sub-band
Ka	a frequency sub-band
Ku	a frequency sub-band
kg	kilograms
km	kilometer
kW	kilowatt
L	a frequency sub-band
LaRC	NASA Langley Research Center
lbs	pounds
LEAP	Low Emission Alternative Propulsion
LIDAR	Light Detection And Ranging – This instrument transmits light which interacts with and is changed by a target. Some of this light is reflected / scattered back to the instrument where it is analyzed. It can be used to measure distance, speed, rotation, or chemical composition and concentration. http://wwwghcc.msfc.nasa.gov/sparcle/sparcle_tutorial.html

LLWAS	Low level wind shear alert system
LNAV	Lateral Navigation
m	meter
M	Million
MAPR	Multiple Antenna Profiler Radar
MIDAS	Man Machine Integration Design and Analysis System
MOA	Memorandum of Agreement – formalized Interagency, inter departmental document of agreement.
MOU	Memorandum of Understanding - formalized Interagency, inter departmental document of understanding. (lesser than MOA)
MAV	Mini Aerial Vehicle
Mbps	Mega-bits per second
MODIS	Moderate Resolution Imaging Spectroradiometer - This instrument aboard the Terra and Aqua satellites is used for acquiring data about the global dynamics and processes occurring on the land, in the oceans, and in the lower atmosphere. http://modis.gsfc.nasa.gov/about/index.html
MS	Milestone
NAS	National Airspace System
NASA	National Aeronautics and Space Administration
NAVAID	Radio Navigational Aid
NCEP	National Centers for Environmental Prediction – This organization delivers national and global weather, water, climate and space weather guidance, forecasts, warnings and analyses to its partners and external user communities. http://www.ncep.noaa.gov/mission/
NGA	National Geospatial-Intelligence Agency – This organization provides geospatial intelligence, which includes but is not limited to imagery, maps, charts, and environmental data, in support of national security. http://www.nga.mil
NM or nm	Nautical miles (equals X standard Miles)
NMAC	Near Mid Air Collision
NIST	National Institute of Standards and Technology

NOAA	National Oceanic and Atmospheric Administration
NOTAMS	FAA – Notice to Air Men System – Airspace Regulation Notification System intended to alert pilots to airspace conditions and restrictions.
NFS	National Forest Service
NRA	NASA Research Announcement
NSF	National Science Foundation
NTSC	Volpe National Transportation Center
NWIS	NAS-wide Information System
O2	Oxygen
OAT	Office of Aerospace Technology
OMB	Office of Management and Budget
OpsCon	Operational Concept
OpsNet	Operations Network
OTH	Over-The-Horizon
P	a frequency sub-band
PACT	Projekt Atol Communication Technologies
PCA	Positive Controlled Airspace
PAGNC	Precision Absolute Guidance, Navigation, and Control
PRGNC	Precision Relative Guidance, Navigation, and Control
PSC	Polar Stratospheric Clouds
PTP	Point to Point
RASS	Radio Acoustic Sounding System
R&D	Research and development
REDAC	Research and Engineering Advisory Committee of the FAA
RIM	Range Imaging
ROA	Remotely Operated Aircraft
RTCA	Radio Technical Committee on Aeronautics - RTCA, Inc.

SADRASS	Spaced Antenna Drift Radio Acoustic Sounding System
SAR	Synthetic Aperture Radar Or Search and Rescue (Context)
SATS	Small Aircraft Technology System
SBIR	Small Business Innovative Research (usage - Contracting)
sec	Second
S-FAR	Special Federal Acquisition Regulation
SID	Standard Instrument Departure
SO2	Sulfur dioxide
SWAP	Severe Weather Avoidance Program
SWIM	System Wide Information Management
SWO	System Wide Optimization
TAAM	Total Airspace and Airport Modeler
TACAN	Tactical Air Navigation
TARPS	Tactical Airborne Reconnaissance Pod System - MIL
TARS	Tethered Aerostat Radar System
TCAS	Traffic alert and Collision Avoidance System
TDWR	Terminal Doppler Weather Radar
Tech	Technology
TESAR	Tactical Endurance Synthetic Aperture Radar – strip mapping SAR
TFM	Traffic Flow Management
TFAS	Traffic Flow Automation System
THORPEX	THE Observing-system Research and Predictability Experiment. THORPEX is an international research and development program to accelerate improvements in the accuracy high impact weather forecasts. http://www.wmo.int/thorpex/mission.html
TRACON	Terminal Radar Approach Control
TRL	Technology Readiness Level
TRUST	Tactical Radio Unified System Transport

TUAV	Tactical AUV
UAV	Uninhabited Aerial Vehicle
UAV ICB	see Euro UAV ICB
UCAV	Unmanned Combat Air Vehicle
UNITE	UAV National Industry Team – United States (UNITE/Access 5)
US	United States
USAF	United States Air Force
USDA	United States Department of Agriculture
USGS	United States Geological Survey
USN	United States Navy
VAMS	Virtual Airspace Modeling and Simulation
VASE	Virtual Airspace Simulation Environment
VAST	Virtual Airspace Simulation Technologies
VHF	Very High Frequency
VFR	Visual Flight Rules
VIIRS	Visible Infrared Imager Radiometer Suite – The group of instruments collects visible/infrared imagery and radiometric data, which includes atmospheric, clouds, earth radiation budget, clear air land/water surfaces, sea surface temperature, ocean color, and low light visible imagery. http://www.ipo.noaa.gov/Technology/viirs_summary.html
VNAV	Vertical Navigation
VOR	VHF Omnidirectional Ranges
W	Watts
WakeVAS	Wake Vortex Advisory System