

NASA Contractor Report 193218

Acronym Dictionary

**Center for AeroSpace Information
Linthicum Heights, MD**

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**National Aeronautics and
Space Administration**

**Scientific and Technical
Information Program**

1993

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A

A&R

Automation & Robotics

A-ARM

Army Armor Board, Fort Knox, Ky.

A-ART

Army Artillery Board, Fort Sill, Okla.

AAAS

American Association for the Advancement of Science

AAB

Army Aviation Board Fort Rucker, Ala.

AACB

Aeronautics and Astronautics Coordinating Board

AACM

Average Absolute Control Movement

AADB

Army Air Defense Board, Fort Bliss, Tex.

AAE

Average Absolute Error

AAEE

Aeroplane and Armament Experiment Establishment, (Gt. Brit.)

AAESWB

Army Airborne, Electronics and Special Warfare Board, Fort Bragg, N. C.

AAFE

1. Advance Applications Flight Experiment Program
2. Aero Assist Flight Experiment

AAH

1. Advanced Attack Helicopter
2. Automatic Attitude Hold (Space Shuttle)

AAL
Arctic Aeromedical Lab., Fort Wainwright, Alaska

AAM
Atmospheric Angular Momentum

AAOE
Airborne Antarctic Ozone Experiment

AAP
Apollo Applications Program

AAS
American Astronautical Society

AASE
Airborne Arctic Stratospheric Expedition

AATB
Army Arctic Test Board, Fort Greely, Alaska

ABIL
Airborne Beacon Interference Locator

ABL
Army Biological Labs., Frederick, Md.

ABLE
Amazon Boundary Layer Experiment

ABM
Apogee Boost Motor

ABS
Acrylonitrile Butadiene Styrene

AC
Atlas Centaur (Intermediate class expendable launch vehicle)

ACA
Attitude Control Assembly (Space Station)

ACC
Aft Cargo Carrier (Space Shuttle)

ACCS
Active Contamination Control System

ACD
Architecture Control Document

ACE
1. Acceptance Checkout Equipment
2. Active Control Aircraft
3. Advanced Composition Explorer
4. Attitude Control Electronics

ACES
Acoustic Containerless Experiment System

ACCENT
Autogenetically-Controlled Cesium (or Colloid) Electro-Nuclear Thrust system

ACCESS
Assembly Concept for Construction of Erectable Space Structure

ACDTR
Airborne Central Data Tape Recorder

ACF
Autocorrelation Function

ACIC
Aeronautical Chart and Information Center (AF), St. Louis, Mo.

ACIP
1. Aerodynamic Coefficient Identification Package (Space Shuttle)
2. Aerodynamic Coefficient Instrumentation Package (Space Shuttle)

ACLS
1. Air Cushion Landing System
2. Automated Control and Landing System
3. Automatic Carrier Landing System

ACOSS
Active Control of Space Structures

ACP
Area Command Post

ACPS
Attitude Control Propulsion System

ACR
Active Cavity Radar

ACRC
Assured Crew Return Capability

ACRDL
Army Chemical Research and Development Labs., Army Chemical Center, Md.

ACRIM
Active Cavity Radiometer Irradiance Monitor

AC&S
Attitude Control and Stabilization

ACS
Attitude Control System

ACS/COM
Attitude Control System/Communications

ACSH
Avionic and Control System Hardware

ACSIL
Admiralty Centre for Scientific Information and Liaison (Great Brit.).

ACSSB
Amplitude Companded Single Sideband

ACT

1. Advanced Concepts Test
2. Attitude Control Thrusters

ACTH
Adrenocorticotropin

ACTIVE/APEX
A Soviet Multinational Plasma Wave Experiment

ACTS
Advanced Communications Technology Satellite

ACV
Air Cushion Vehicle (ground effect machine; includes hovercraft)

ACWP
Actual Cost of Work Performance

ACZCS
Advanced Coastal Zone Color Scanner

AD
Animal Development (Genetics)

AD-A
Automatic Gain Control (AGC)

ADASP
1. Air Defense Annual Service Practice
2. Automatic Data and Select Program

ADC
1. Aerospace Defense Command
2. Affiliated Data Center
3. Air Defense Command, Colorado Springs, Colo.
4. Analog to Digital Converter
5. Automatic Deviation Control

ADCLS
Automated Data Collection and Location System

ADD
Architectural Definition Document

ADEOS
Advanced Earth Observing Satellite

ADEU
Automatic Data-Entry Unit

ADF
Automatic Direction Finding

ADI
Attitude Direction Indicator (Space Shuttle)

ADISB
Australian Defense Information Services Branch

ADL
Ada Design Language

ADP

1. Air Data Probe (Space Shuttle)
2. Automatic Data Processing

ADR
Achievable Data Rate

ADS

1. Aerospace Data Systems
2. Altitude Decompression Sickness
3. Audio Distribution System (Space Shuttle)

ADSF
Advanced Directional Solidification Furnace

ADSP
Advanced Digital SAR Processor

ADV
Ascent/Descent Vehicles

ADVALM
Advanced Laminate Analysis Code

ADVENT
Ada Development Environment

ADVPCG
Advanced Protein Crystal Growth

AE

1. Atmospheric Explorer (Satellite)
2. Average Error

AE-C
Explorer 51

AE 3
Explorer 51

AEC
Atomic Energy Commission, Washington, D.C.

AECL
Atomic Energy of Canada, LTD.

AED
Ammunition Engineering Directorate, Picatinny Arsenal, Dover, N.J.

AEDC
Arnold Engineering Development Center, Arnold Airforce Station, Tenn.

AEDU
Admiralty Experimental Diving Unit, (Gt. Brit.).

AELRDL
Army Electronic Research and Development Agency, Fort Monmouth, N.J.

AERLO
Army Electronics Logistics Research Office
See: AELRDL

AEL
Admiralty Engineering Lab. (Gt. Brit.)

AEM
Analytical Electron Microscopy

AEM Satellite
Applications Explorer Missions

AEPG
Army Electronic Proving Ground Fort Huachuca, Ariz.

AEPI
Atmospheric Emissions Photometric Imaging

AERDA

Army Electronics Research and Development Activity (White Sands Missile Range, N. Mex. and Fort Huachuca, Ariz.)

AERDL

Army Engineer Research and Development Labs., Fort Belvoir, Va.

AEROSAT

Aeronautical Communications Satellite

AEWES

Army Engineer Waterways Experiment Station, Vicksburg, Miss.

AF

Air Force, Department of

AFAC

Air Force Armament Center, Eglin Air Force Base, Fla.

AFBMD

Air Force Ballistic Missile Div., Air Research and Development Command Inglewood, Calif.

AFCCDC

AF Command and Control Development Center.

AFCCDD

Air Force Command and Control Development Div., Air Research and Development Command, Bedford, Mass.

AFCO

Automatic Fuel Cutoff

AFCRL

Air Force Cambridge Research Lab., Bedford, Mass.

AFD

Aft Flight Deck (Space Shuttle)

AFE

1. Aeroassist Flight Experiment
2. American Flight Echocardiograph

AFETR
AF Eastern Test Range

AFFTC
Air Force Flight Test Center, Edwards Air Force Base, Calif.

AFGE
American Federation of Government Employees

AFGL
Air Force Geophysics Laboratory

AFIT
Air Force Inst. of Tech., Wright-Patterson Air Force Base, Ohio

AFITV
Air Force Instrumented Test Vehicle (Anti-satellite target vehicle)

AFL
Abstract Families of Languages

AFMDC
Air Force Missile Development Center, Holloman Air Force Base, N. Mex.

AFMTC
1. Air Force Missile Test Center, Patrick Air Force Base, Fla.
(Later AFETR)
2. AF Mission Test Center

AFOSR
Air Force Office of Scientific Research, Washington, D. C.

AFPCB
Armed Forces Pest Control Board, Washington, D.C.

AFPRL
Air Force Personnel Research Lab.

AFPTRC
Air Force Personnel and Training Research Center, Lackland
Air Force Base, Tex., Later Air Force Personnel Research Lab.

AFRPL
Air Force Rocket Propulsion Laboratory

AFSAWC

Air Force Special Air Warfare Center, Eglin Air Force Base, Fla.

AFSC

Air Force Systems Command, Washington, D.C.

AFSCF

Air Force Satellite Control Facility
(Now known as the Space Test Center)

AFSWC

Air Force Special Weapons Center, Kirtland Air Force Base, N. Mex.

AFT

Autogenic Feedback Training

AFTAC

Air Force Technical Application Center, Washington, D. C.

AFTI

Advanced Fighter Technology Integration

AFWAL

Air Force Wright Aeronautical Labs.

AFWL

Air Force Weapons Laboratory

AGARD

Advisory Group for Aeronautical Research Development-Paris, (France)

AGB

Asymptotic Giant Branch (Stars)

AGC

1. Apollo Guidance Computer
2. Automatic Gain Control

AGCE

Atmospheric General Circulation Experiment
(A model prepared for Spacelab flights which is concerned with baroclinic instability
in vertically stable atmospheres)

AGCS
Artificial Gravity Centrifuge System

AGE
Aerospace Ground Equipment

AGED
Advisory Group on Electron Devices

AGL
Above Ground Level

AGO
Adjutant General Dept. of the Army, Washington, D.C.

AGP
AGRI Grain Power Project
(ethanol fuel from grains)

AGPA
Ammunition Group, Picatinny Arsenal, Dover, New Jersey

AGRF
Artificial Gravity Research Facility

AGRISTARS
Agriculture and Resources Inventory Surveys Through Aerospace

AGS
1. Abort Guidance System
2. Alternating-Gradient Synchrotron

AGT
Automated Guideway Transit

AGTC
Airport Ground-Traffic Control

AHRS
Attitude Heading Reference System

AI
Artificial Intelligence

AIAA
American Institute of Aeronautics and Astronautics

AID
Aerospace Information Div., Washington, D.C. (Lib. of Cong.)
(Became Aerospace Technology Div. then disbanded)

AIDJEX
Arctic Ice Dynamics Joint Experiment

AIDS
Aircraft Integrated Data Systems

AIFTDS
Airborne Integrated Flight Test Data System

AIM
Atmosphere-Ionosphere-Magnetosphere

A-INF
Army Infantry Board, Fort Benning, Ga.

AIPS
Astronomical Image Processing System

AIRS
1. Advanced Inertial Reference Sphere
2. Atmospheric Infrared Sounder

AIRSAR
Airborne Synthetic Aperture Radar

AIS
Airborne Imaging Spectrometer

AIV
Assembly, Integration and Verification

AKR
Auroral Kilometric Radiation

ALADDIN
Atmospheric Layering and Density Distribution of IONS and Neutrons

ALAE
Atmospheric Lyman-Alpha Emissions

ALARA
As Low As Reasonably Achievable

ALARM Project
Automatic Light Aircraft Readiness Monitoring Project

ALARR
Air Launch, Air Recoverable Rocket (Payload)

ALFMED
Apollo Light-Flash Moving-Emulsion Detector

ALIAS
Aircraft Laser Infrared Absorption Spectrometer

ALNOT
Alert Notice

ALRH
Apollo Lunar Radioisotope Heater

ALS

1. Advanced Launch System
2. Alternate Landing Site
3. Approach Light System

ALSE
Apollo Lunar Sounder Experiment

ALSEP
Apollo Lunar Surface Experiments Package

alt

1. altitude
2. altimeter

ALT
Approach and Landing Test

ALU

1. Advanced Levitation Unit
2. Arithmetic and Logic Unit

AM

1. Ambulance Module
2. Amplitude Modulation
3. Auxiliary Module

AM0

Air Mass Zero

AMC-A

Army Material Command, Washington, D.C.
(Later MDRC, Darcon)

AMC-AF

Air Materiel Command, Wright-Patterson Air Force Base, Ohio
After Air Force Logistics Command

AMC-RA

Army Missile Command, Redstone Arsenal, Huntsville, Ala.

AMDS

Astrophysics Master Directory System (AMDS)

AML

Admiralty Materials Lab. (Gt. Brit.)

AMMRC

Army Materials and Mechanics Research Center

AMMS

Advanced Microwave Moisture Sounder

AMOS

Air Force Maui Optical Station

amp

ampere

AMPA

Adaptive Multibeam Phased Array

AMPS
Atmospheric, Magnetospheric, and Plasmas-in-Space Payloads

AMPTE
1. Active Magnetospheric Particle Tracer Explorer
2. Active Mesospheric Particle Tracer Explorer

AMR
Advanced Microwave Radiometer

AMRA
Army Materials Research Agency, Watertown, Mass.
(Later AMMRC - Army Materials and Mechanics Research Center)

AMRL
1. 6570th Aerospace Medical Research Labs., Aerospace Medical Div.
Wright-Patterson Air Force Base, Ohio
2. Army Medical Research Lab., Fort Knox, Ky.

AMRNL
Army Medical Research and Nutrition Lab., Denver, Colo.

AMRT
Time Division Multiple Access (TDMA in English)

AMS
1. Advanced Metallic Structures Program
2. American Meteorological Society
3. Army Map Service, Washington, D.C.

AMSAT
Amateur Satellite Corp. (Radio)

AMSCAT
Airborne Microwave Scatterometer

AMSR
Advanced Mechanically Scanned Radiometer

AMST
Advanced Medium STOL Transport

AMSU
Advanced Microwave Sounding Unit

AMTC
Army Missile Text Center, White Sands Missile Range, N. Mex.

AMTEC
Alkali Metal Thermoelectric Converter

AMTED
Army Missile Test and Evaluation Directorate, White Sands Missile Range, N. Mex.

AMTS
Advanced Moisture and Temperature Sounder

ANFLOW
Anaerobic upFLOW (bioreactors)

ANG
Air National Guard

ANIP
Army Navy Instrumentation Program

ANL
Army Natick Labs., Mass.

ANOVA
Analysis of Variance

ANS
Astronomical Netherlands Satellite

A/O
Atomic Weight Percent

AO

1. Announcement of Opportunity
2. Atomic Orbital
3. Atomic Oxygen

AOA
Abort-Once-Around (Space Shuttle)

AOCI
Airborne Color Imager

AOCS
Attitude and Orbital Control System

AODC
Age of Data, Clock

AODE
Age of Data, Ephemeris

AOIPS
Atmospheric and Oceanographic Information Processing System

AOL
1. Admiralty (Gt. Brit.)
2. Airborne Oceanographic Lidar

AOPA
Aircraft Owners and Pilots Association

AOS
Acquisition of Signal (Space Shuttle)

AOSO
Advanced Orbiting Solar Observatory

AOST
Anomalies in Ocean Surface Temperature

AOTF
Acousto-Optical Tunable Filter

AOTV
Aeroassist Orbital Transfer Vehicle

Ap
Geomagnetic Activity Index

APAE
Artificial Payload Accommodation Equipment

APAS
Automated Pilot Advisory System

APC

1. Aft Power Controller (Space Shuttle)
2. All-Purpose Carrier
3. Aromatic Polymer Composite

APCGF

Advanced Protein Crystal Growth Facility

APD

Avalanche Photodiode

APE

Aurora Photography Experiment

APEL

Aeronautical Photographic Experimental Lab., Naval Air Development Center, Johnsville, Pa.

APEX

Automated Power Expert

APG

Aberdeen Proving Ground, Md.

APGC

Air Force Proving Ground Command Eglin Air Force Base, Fla.

APM

Ascent Particle Monitor

APO

1. Apogee
2. Apollo Program Office

APPR

Army Package Power Reactor

APRL

Army Prosthetics Research Lab., Walter Reed Army Medical Center, Washington, D.C.

APRO

Army Personnel Research Office (of the Chief Research and Development), Washington, D.C.

APSE
Ada Programming Support Environment

APT
Automatic Picture Transmission

APU
1. Agrophysical Units
2. Auxiliary Power Unit (Space Shuttle)

APW
Augmented Plane Wave (Method)

AR&D
Autonomous Rendezvous and Docking

ARABSAT
Arab Satellite (Communications satellite of the Arab Satellite Communications Organization)

ARAC
Radar Approach Control Facility (USA)

ARAMIS
Automation, Robotics, and Machine Intelligence System

ARAPS
Angular Resolved Auger Parameter Spectroscopy

ARAPT
Advanced Research Agency Project Tempo

ARC
1. Aeronautical Research Council, (Gr. Brit.)
2. Aggregation of Red Cells (Low-g experiment)
3. Ames Research Center

ARCS
1. Aft Reaction Control System (Space Shuttle Subsystem)
2. Automated Raster Cartography System

ARF
Animal Research Facility

ARI
Aileron to Rudder Interconnect

ARIES
Advanced Radar Information Evaluation System

ARIN
Aerospace Research Information Network

ARINC
Aeronautical Radio, Inc.

ARIP
Automatic Rocket Impact Predictor

ARIS
Advanced Ranger Instrumentation Ship

ARL

1. Admiralty Research Lab. (Gt. Brit.)
2. 6571st Aeromedical Research Lab., Holloman Air Force Base, N. Mex.
3. Aeronautical Research Lab., Office of Aerospace Research, Wright-Patterson Air Force Base, Ohio

ARMAR
Airborne Rain Mapping Radar

AROD

1. Airborne Range and Orbit Determination
2. Army Research Office, Durham, N.C.

ARPA
Advanced Research Projects Agency, Washington, D.C.
(Later DARPA - Defense Advanced Research Projects Agency)

ARPA NET
Advanced Research Projects Agency Network (DOD)

ARQ
Automatic Repeat-Request

ARS

1. Agricultural Research Service, Watkinsville, Ga.
2. American Rocket Society
(Later AIAA-American Institute for Aeronautics and Astronautics)
3. Atmospheric Revitalization System (Space Shuttle)

ARSR

Air Route Surveillance Radar

ART

1. Alternate Resonance Toning
2. Ambiguity Reference Tone

ARTCC

Air Route Traffic Control Center

ARTEMIS

Automated Reporting, Tracking, and Evaluation Management Information System

ARTS

Automated Radar Terminal System

ARW

Aeroelastic Research Wing

ASA

Acetylsalicylic Acid

ASAS

1. Advanced Solid State Array Spectroradiometer
2. Aerodynamic Stability Augmentation System

ASC

Aquatic Research Facility

ASCG

Automatic Solution Crystal Growth

ASCR

Advanced Sodium Cooled Reactor

ASCS

Agricultural Stabilization and Conservation Service

ASD
Aeronautical Systems Div., Air Force Systems Command (AFSC), Wright-Patterson Air Force Base, Ohio

ASDE
Airport Surface Detection Equipment (Radar)

ASE
Automotive Sterling Engine

ASEB
Aeronautics and Space Engineering Board

ASEE
American Society for Engineering Education

ASEM
Assebmly of Station by Extravehicular Activity Methods

ASENT
Automatic System Excess Noise Temperature

ASF
Alaska SAR Facility

ASME
1. American Society of Mechanical Engineers
2. American Support Material and Equipment

ASO
Advanced Solar Observatory

ASP
1. Accelerated String Processor
2. Attitude Sensor Package

ASR
1. Accelerated Successive Replacement
2. Advanced Surveillance Radar
3. Air Surveillance Radar
4. Airport Surveillance Radar
5. American Society of Rocketry

ASRDI
Aerospace Safety Research & Data Institute (NASA-LEWIS)

ASRPA
Army Signal Radio Propagation Agency, White Sands Missile Range, N. Mex.

ASSB
Apollo Site Selection Board (NASA)

ASSET
Aerothermodynamic (Elastic) Structural Systems Environmental Tests

assy
assembly

AST
1. Aeronautics and Space Technology Program
2. Advanced Supersonic Transport

AST/VCE
Acoustic Shield Thermal/Variable Cycle Engine (aircraft engine)

ASTECC
Advanced Solar Turbo Electric Conversion

ASTER
Advanced Spaceborne Thermal Emission and Reflection Radiometer

ASTEX
Atlantic Stratocumulus Transition Experiment.

ASTF
1. Aeropropulsion Systems Test Facilities
2. Aerospace Structures Test Facility (AF)

ASTM
American Society for Testing and Materials

ASTOVL
Advanced Short Takeoff and Vertical Landing (aircraft)

ASTP
1. Advanced Systems Technology Program
2. Apollo-Soyuz Test Project (U.S.S.R./U.S.)

ASTRO
(Program designed to obtain ultraviolet (UV) data on astronomical objects using
a UV telescope)

ASTRO-SPAS
(European Cross-bay carrier)

ASTROMAG
Astrophysics Magnetic Spectrometer Facility

ASTROS
Advanced Star/Target Reference Optical Sensor

ASTV
Aeroassisted Space Transfer Vehicles

ASVT
Applications Systems Verification Test (NASA)

ASWE
Admiralty Surface Weapons Establishment (Gt. Brit.)

ATA
1. Air Transport Association of America
2. Atmospheres, Absolute

ATAC
Army Tank-Automotive Command (or Center) Detroit, Mich.

ATARS
Automated Traffic Advisory and Resolution Service (Collision Avoidance System -
Aviation)

ATB
Army Transportation Board, Fort Eustis, Va.

ATBN
Amine-Terminated Butadiene-Acrylonitrile Rubber

ATC
Air Traffic Control

ATCAA
ATC Assigned Airspace

ATCAC

Air Traffic Control Advisory Committee, (Dept. of Transp.)

ATCCC

Air Traffic Control Command Center

ATCRBS

ATC Radar Beacon System (also referred to as Second Surveillance Radar--SSR)

ATCS

Active Thermal Control Subsystem (Space Shuttle)

ATD

Aerospace Technology Division (Lib. of Cong.)
(Formerly, Aerospace Information Division)

ATE

1. Airborne Test Equipment
2. Automated Test Equipment

ATECOM

Army Test and Evaluation Command Aberdeen Proving Ground, Md.

ATEGG

Advanced Turbine Engine Gas Generator (AF)

ATF

Astrometric Telescope Facility

ATI

Area-Time-Integral

ATIS

Automatic Terminal Information Service (Aviation)

ATL

Advanced Technology Laboratory (NASA)

ATLAS

1. Atmospheric and Terrestrial Laboratory for Applications in Space
2. Atmospheric Laboratory for Applications and Science

atm

atmosphere

ATM

Apollo Telescope Mount (NASA)

ATMOS

Atmospheric Trace Molecule Spectroscopy

ATO

1. Abort-To-Orbit (Space Shuttle)
2. Air Traffic Operations Service

ATOPS

Advanced Transport Operating Systems

ATP

Adenosine Triphosphate (Biochemistry)

ATR

1. Advanced Test Reactor
2. Air Turborocket
3. Air Transport Rating
4. Attenuated Total Reflectance

ATRC

Army Transportation Research Command, Fort Eustis, Va.

ATS

1. Applications Technology Satellite
2. Assembly Truss and Structure
3. Attitude Transfer System

ATSD

Airborne Traffic Situation Display (FAA)

ATSIT

Automatic Techniques for the Selection and Identification of Targets

ATT

Advanced Transport Technology

ATV

All-Terrain Vehicle

ATVC

Ascent Thrust Vector Control

AU
Astronomical Unit

AURA
Association of Universities for Research in Astronomy

AUSSAT
Australian Communication Satellite

AUTODIN
Automatic Digital Network

AUTO-GOSS
Automated Ground Operations Scheduling System

AUWE
Admiralty Underwater Weapons Establishment (Gt. Brit.).

aux
auxiliary

AVCG
Automatic Vapor Crystal Growth

AVE
Atmospheric Variability Experiment (NASA)

AVF
Azimuthally Varying Field

AVHRR
Advanced Very High Resolution Radiometer

AVID
1. Advanced Visual Information Display
2. Aerospace Vehicle Interactive Design
3. Airborne Vehicle Identification

AVIRIS
Airborne Visible and Infrared Imaging Spectrometer

AVPP
Adjustable Vent Port Plugs

AVST
Automated Visual Sensitivity Tester
Advanced Vehicle Simulation Technique

AVT
Applications Vertical Test Program (Comm. Sat.)

AWACS
Airborne Warning and Control System

AWG
American Wire Gauge

AWS
1. Air Weather Service, Scott Air Force Base, Ill.
2. Air Warning Service

ax
x-axis acceleration

AXAF
Advanced X-ray Astrophysics Facility

AXAF-R
Advanced X-ray Astrophysics Facility-Retrieval

ay
y-axis acceleration

az
1. azimuth
2. z-axis acceleration

B

b

bit

B&AS

Brakes and Antiskid (Space Shuttle)

B/U

Back-up

BANSHEE

1. Balloon and Nike-Scaled High-Explosive Experiments
2. Burning Anomaly Rate Factor

BAT

Beam Assembly Teleoperator

BATES

Ballistic Test and Evaluation System

BATSE

Burst And Transient Source Experiment

BATTERY

Sodium Sulfur Battery Flight Experiment

BB

Breadboard

BBGKY Hierarchy

(Reduced probability distribution proposed by Bogoliubov, Born, Green, Kirkwood, and Yvon; Plasma Kinetics)

BBSO

Big Bear Solar Observatory

BBXRT

Broad-Band X-Ray Telescope

BCC

Body Centered Cubic (Crystallography)

BCD
Baseline Configuration Document

BCS
Bragg Crystal Spectrometer

BCU
Bus Control Unit

BCWP
Budgeted Cost for Work Performed

BCWS
Budgeted Cost for Work Scheduled

BDSD
Bibliographic Data Set Description

BER
Bit Error Rate

BESS
Biomedical Experiment Scientific Satellite

BF
Body Flap (Space Shuttle)

BFC
Backup Flight Control (Space Shuttle)

BFO
Blood-Forming Organs

BFS
Backup Flight System (Space Shuttle)

BGK
Bhatnagar, Gross, Krook equation
(In plasma physics and rarefied gas dynamics.)

BHS
Body Heat Storage

BIB
Blocked Impurity Band

BIMA
Berkeley-Illinois-Maryland Array

BIMDA
Bioprocessing with the Materials Dispersion Apparatus

Binhex
Binary to hexadecimal

BIOCORE
Biological Cosmic Ray Experiment

BIOLABS
Biological Measurement of Man-in-Space

BIPS
Brayton Isotope Power System

BIR
Bureau of Intelligence and Research Dept. of State, Washington, D.C.

BIT
1. Binary Digit (Data processing)
2. Built-in Test

BITE
1. Built-In Test Equipment
2. Series of Eight BITs (Computer Memory)

BITS
Battleview Image Transmission System

BLAST
Battlefield Laser Acquisition Sensor Test

BLC
Baseband Level Control

BLC aircraft
Boundary Layer Control Aircraft

BLISS
Balloon-Borne Laser In-Situ Sensor

BMEWS
Ballistic Missile Early Warning System

BM-P
Bureau of Mines, Pittsburg, Pa.

BOMEX
Barbados Oceanographic and Meteorological Experiment

BOS
Bright Object Sensor

BP
Boost Pump

BPM
Biological Production Module

BPS
1. Bits Per Second
2. Boost Pump Start
3. Bytes/Sec (Data Processing)

BPSK
Binary Phase Shift Key

BR
Bit Rate

BRDF
Bidirectional Reflectance Distribution Function

BRL
Ballistic Research Labs., Aberdeen Proving Ground, Md.

BRS
Building Research Station (Brit.)

BRTS
Bi-Lateration Ranging Transponder System

BSD
Ballistic Systems Div., Norton Air Force Base, Calif.

BSE
Basic Stirling Engine

BSS
Broadcast-Satellite Service

BTTN
Butanetrioltrinitrate

Btu
British Thermal Unit

BUCLAS
(A Computer Program for Uniaxial Compressive Buckling Loads of Orthotropic Laminated Structural Sections)

BUCLASP
(A Computer Program for Uniaxial Compressive Buckling Loads of Orthotropic Laminated Stiffened Plates)

BUSHIPS
Bureau of Ships, Washington, D.C.

BUSS
Balloon-Borne UV Stellar Spectrometer

BUV
Backscatter Ultraviolet (Spectrometry)

BVI
Blade Vortex Interaction

BW
Bandwidth

C

- C2
Command and Control
- C3
Command, Control, and Communications
- C3I
Command, Control, Communications and Intelligence
- C360
Cinema 360 (35 mm motion picture camera for the purpose of documenting crew and mission activities)
- C&T
Communications & Tracking
- CAA
Civil Aeronautics Authority
Later Civil Aeronautics Administration
- CACT
Civil Air Carrier Turbojet
- CAD
 1. Computer-Aided Design
 2. Control and Debug
- CADAM
Comuter-Aided Design and Manufacturing
- CAD/CAE
Computer-Aided Design/Computer-Aided Engineering
- CAE
Computer-Aided Engineering
- CADS
Crustal Accretion-Differentiation Superevent
- CAI
Computer-Aided Instruction

CalCOFI
California Cooperative Oceanic Fisheries Investigations

CAM
Cartographic Automatic Mapping

CAMAC
Computer Automated Measurement and Control (NASA)

CAMEO
Chemically Active Material Ejected in Orbit
(Nimbus G piggyback experiment attached to the Delta 2nd stage)

CAMP or Cyclic AMP
Adenosine 3'5' Cyclic Monophosphate

CAMS
Central Atmospheric Monitoring Systems

CANEX
Canadian Experiments

CAP

1. Civil Air Patrol
2. Crew Activity Plan
3. Controlled Acceleration Propulsion

CAPL
Capillary Pump Loop Experiment

CAPPI
Constant Altitude Plan Position Indicator

CAR
Civil Air Regulation (FAA)

CARD
Civil Aviation Research and Development (NASA)

CARDE
Canadian Armament Research and Development Establishment

CARE
Computer Aided Reliability Estimation

CARETS

Central Atlantic Regional Ecological Test Site, (Dept. of Int.)

CARF

Central Altitude Reservation Facility

CAS

1. Close Air Support
2. Collision Avoidance System
3. Complete Active Space (quantum chemistry)

CAS-C

Canadian Cooperative Applications Satellite

CASEP

Canadian Altitude Sensing Experiment Package

CASES

Controls, Astrophysics, and Structures Experiment in Space

CAS/PWI

Collision Avoidance System/Pilot Warning Indicator

CASSCF

Complete Active Space Self Consistent Field (Quantum Chemistry)

CAT

Clear-Air Turbulence

CATE

Ceramic Application in Turbine Engines

CATV

Cable Television

CB

1. Control Board
2. Center of Buoyancy

CBASS

Commission on Behavioral and Social Science

CBDE

Carbonated Beverage Dispenser Evaluation

CBS
Carrier Balloon System

CBSA
Cargo Bay Stowage Assembly (Space Shuttle)

CBW
Constant Bandwidth

CCAFS
Cape Canaveral Air Force Station

CCB
Configuration Control Board

CCC
Central Computer Complex

CCD
Charge Coupled Device

CCDS
Centers for the Commercial Development of Space

CCE
Charge Composition Explorer

CCI
Contracted Configuration Interaction (quantum chemistry)

CCIR
Consultative Committee for International Radio

CCITT
Consultative Committee for International Telephone and Telegraph

CCL
Coating and Chemical Lab., Aberdeen Proving Ground, Md. (Army)
(Also C&CL)

CCO
Compound Cycle Engine

CCOPE
Cooperative Convective Precipitation Experiment (Meteorology)

CCP
Carbon-Cloth Phenolic

CCS
1. Contamination Control System
2. Cooperative Control Synthesis

CCSDS
1. Consultative Committee for Space Data Systems
2. Consultative Committee for Standard Data Services

CCT
Computer-Compatible Tape

CCTV
Closed-Circuit Television

CCU
Crew Communications Umbilical (Space Shuttle)

CCV
Control Configured Vehicle (Aircraft)

CD
Compact Disk

CDAW
Coordinated Data Analysis Workshop

CDC
Computer Display Channel

CDCE
Cosmic Dust Collection Experiment

CDD Poles
Castillejo-Dalitz-Dyson poles (related to Regge poles)

CDDIS
Crustal Dynamics Data Information System

CDEE
Chemical Defense Experimental Establishment (Gt. Brit.)

CDF
Common Data Format

CDHF
Central Data Handling Facility

CDI
Course Deviation Indicator (Aviation)

CDMA
Code Division Multiple Access

CDMS
Cryospheric Data Management System

CDR
1. Commander (Shuttle Commander)
2. Critical Design Review

CDRC
CIESIN Data and Research Center

CDT
Central Daylight Time

CDTI
Cockpit Display of Traffic Information

CDU
Coupling and Display (Data) Unit

CEA
Control Electronics Assembly (Space Shuttle)

CEFOAM
Checkout Equipment for On-board Automatic Maintenance

CEI
Connected element interferometry

CELNAV
Celestial navigation training

CELSS
Controlled Ecology Life Support System

CEM
Channel Electron Multiplier

CEMTE
Common Experiments Monitoring and Test Equipment

CEOS
Committee on Earth Observations Satellites

CEP
Circular Error Probable

CEPE
Central Experimental and Proving Establishment (Canada)

CERES
Clouds and Earth's Radiant Energy System

CERN
European Organization for Nuclear Research (Switzerland)
Conseil European Pour La Recherche Nucleaire
Later O (Organization) ERN

CERS
Crew Emergency Rescue System

CERV
1. Crew Emergency Rescue Vehicle
2. Crew Emergency Return Vehicle

CETA
Crew and Equipment Transfer Aid

CEX
Charge Exchange

CFA
Crossed Field Amplifiers

CFC
Chlorofluorocarbon

CFD
Computational Fluid Dynamics

CFES
Continuous Flow Electrophoresis System

cfm
Cubic Feet per Minute

CFMF
Cryogenic Fluid Management Facility

CFOS
Cloud Field Optical Simulator

CFP
Centrifuge Facility Project

CFR
Contact Flight Rules
(Also VFR - Visual Flight Rules)

CFRP
Carbon Fiber Reinforced Plastics

CFS
Cryogenic Fluid Storage

CG
1. Center of Gravity
2. Coast Guard, Washington, D. C.

CGBA
Commercial Generic Bioprocessing Apparatus

CHAMP
Comet Halley Active Monitoring Program

CHCS
Crew Health Care System

CHD
Constricted Double Heterojunction

CHeCS
Crew Health Care System

CHIEF
Combined Helmholtz Integral Equation Formulation

CHILD Device
Cognitive Hybrid Intelligent Learning Device

CHROMEX
Chromosomes Experiment (Investigation of the effects of space flight

o n
plant
tissue
growth
)

CHRP
Configurable High Rate Processing

CHRPS
Configurable High Rate Processing System

CI
1. Chemical Inspectorate (Gt. Brit.).
2. Configuration Interaction (Quantum Chemistry)
3. Configuration Item

CIA
Central Intelligence Agency, Washington, D.C.

CIAP
Climate Impact Assessment Program, (High Alt. Aircraft)

CIB
Cosmic Infrared Background

CID
Charge-Injection Device (Electronics)

CIE

1. Commission Internationale Eclierege
2. Computer-Integrated Engineering

CIESIN

Consortium for International Earth Science Information Network

CIL

Critical Items List

CIM

Computer-Integrated Manufacturing

CIP

Coordinated Instrument Package (Orbiting Solar Laboratory)

CIR

1. Coherent Imaging Radar
2. Controlled Impact Reentry (package)

CIRIA

Construction Industry Research and Information Association (United Kingdom)

CIRRIS

Cryogenic Infrared Radiance Instrument for Shuttle

CISTI

Canada Institute for Scientific and Technical Information

CIT

California Institute of Technology
Also Calit, CALT, CALTECH

CIV

Critical Ionization Velocity

CLAN

Core Local Area Network

CLASS

Communications Link Analysis and Simulation System

CLC

Channel Level Control

CLCWA
Clear Lake City Water Authority

CLEAR
Communications Link Expert Assistance Resource

CLIPS
C-Language Integrated Production System

CLLS
Closed Loop Life Support

CIO
Chlorine Monoxide

CLOUDS
Cloud Logic to Optimize Use of Defense Systems

CLS
Contingency Landing Site(s)

CLU
Common Logic Unit

CM

1. Center of Mass
2. Common Module
3. Command Module (NASA)
4. Configuration Management
5. Countermeasures

CMAG
Cruise Missile Advanced Guidance

CMB

1. Core-Mantle Boundary
2. Cosmic Microwave Background

CMDB
Composite Modified Double-Base (Propellants)

CME
Coronal Mass Injection

CMG
Control Moment Gyro

CMIX
Commercial Materials Dispersion Apparatus ITA Experiment

CMO
Configuration Management Officer

CMOS
Complementary Metal Oxide Semiconductors

CMP
Command Module Pilot (Apollo)

CMPL
Commercial Materials Processing Lab

CMS

1. Composite Multiplex Signal
2. Configuration Management System
3. Code Management System (VAX/DEC)

CMSE
Extended Duration Space Environment Candidate Materials Exposure

CMSER
Commission on Marine Science, Engineering, and Resources (Previously, ICO)

CMT
Configuration Management Tool

CN
Cellulose Nitrate

CNCR
Characterization of Neurospora Circadian Rhythms in Space

CNES
Centre National d'Etudes Spatiales
(National Center for Space Studies - France)

CNI
Communications, Navigation, and Identification (Air Traffic Control)

CNP
1. Cometary Nucleus Penetrator
2. Continuous Negative Pressure (Breathing)

CNR
1. Carboxy Nitroso Rubber
2. National Research Council (Italy)

CNS
1. Central Nervous System
2. Computer Networking Subsystem

CO
Contracting Officer

CO-I
Co-Investigator

CO-PI
Co-Principal Investigator

COAS
Crew Optical Alignment Sight (Space Shuttle)

COB
Cargo on Board

COBE
Cosmic Background Explorer (NASA satellite)

COD
1. Carrier On-Board Delivery (aircraft, Naval Aviation)
2. Continuous Optical Discharge
3. Crack Opening Displacement

CODAR
Coastal Oceanic Dynamic Application Radar

CODD
Central On-line Data Directory

COF
Construction of Facilities (NASA)

COFS
Control of Flexible Structures

COHMEX
Cooperative Huntsville Meteorological Experiment

COMEDS
COntinental MEteorological Data System

COMSAT
Communications Satellite

COMTEL
Compton Telescope

CONCAP
Consortium for Materials Development in Space (Complex Autonomous
Payload)

CONE
Cryogenic Orbital Nitrogen Experiment

CONUS
Continental United States

COP
Co-Orbiting Platform

COPERS
(European Preparation Commission for Space Research predecessor of ESRO & ESA)

COR
Continental Operations Range

COSMIC
1. Coherent Optical System of Modular Imaging Collectors
2. Computer Software Management and Information Center

COSTI
Civil Space Technology Initiative

COTV

Cargo Orbit Transfer Vehicle

CP

1. Center of Pressure
2. Chemically Pure
3. Circular Polarization
4. Commercially Pure
5. Communications Processor
6. Containerless Processing

CP Invariance

Charge-Parity Invariance

CPCG

Comercial Protein Crystal Growth

CPF

Coupled-Pair Functional (Quantum Chemistry)

CPIA

Chemical Propulsion Information Agency

CPM

1. Cost Performance Management
2. Critical Path Method

CPN

Central Stars of Planetary Nebulae

CPR

Cloud Physics Radiometer

CPRA

Compressed Pulse Radar Altimeter

cps

1. Characters Per Second
2. Cycles Per Second

CPT

1. Common Pilot Tone
2. Charge Parity Time (Particle Physics)

CPU
Central Processing Unit (Space Shuttle)

CR
Configuration Review

CRAF
Cometary Rendezvous Asteroid Flyby (Mission)

CRAFH
Collision Resolution Algorithm for Frequency Hopping

CREAM
Cosmic Radiation Effects and Activation Monitor

CRIE
Cosmic Ray Isotope Experiment

CRISTA
Cryogenic Infrared Spectrometer Telescope for Atmosphere

CRM

1. Chemical Release Module
2. Cockpit Resource Management

CRNE
Cosmic Ray Nuclei Experiment

CRREL
Cold Regions Research and Engineering Lab., Hanover, N.H. (Army)

CRRES
Combined Release and Radiation Effects Satellite

CRRF
Cosmic Ray Radiation Facility

CRS
Cosmic Ray Source

CRT

1. Cathode Ray Tube
2. Channel Reference Tone

CRU
Combined Rotating Unit

CRUX
Cosmic Ray Upset Experiment

CRW
Crew (Space Shuttle flight crew for a particular mission)

CRY
Cryogenics

CRYOHP
Cryogenic Heat Pipe

CRYSP
Crystal Sample Package

CRYT
Cryogen Tank

CSA
Canadian Space Agency

CSAR
Coherent Synthetic Aperture Radar

C.S.A.S.
Command and Stability Augmentation System
(Design criteria for aircraft control system)

CSC
Civil Service Commission (Now OPM-Off. of Personnel Management)

CSF
Configuration State Function (Quantum Chemistry)

CSI
Control/Structure Interaction

CSL
Computer Systems Laboratory (Stanford University)

CSM
Command and Service Module

CSMA
Carrier Sense Multiple Access

CSMA/CD
Carrier-Served Multiple Access/Collision Detection

CSOV
Constrained Space Orbital Variation (quantum chemistry)

CSS
Cassini Stratospheric Sounder

CSSA
Coarse Sun Sensor Assembly

CSSP
Committee on Solar and Space Physics

CST
Central Standard Time

CSTI

1. Clearinghouse for Scientific and Technical Information
2. Civil Space Technology Initiative

CSZ
Calcium Stabilized Zirconia Zr 0.85, Ca 0.15, O 1.85

CTA
Canadian Target Assembly

CTE
Coefficient of Thermal Expansion

CTEN
Carboxy-Terminated-Butadiene-Acrylonitrile Rubber

CTO
Controlled Transient Oscillation

CTOL
Conventional Takeoff and Landing

CTPB
Carboxyl-Terminated Polybutadiene

CTPE
Carboxy Terminated PolyEster Propellant

CTR
Controlled Thermonuclear Reactors

CTS
1. Coded Time Sequence
2. Communications and Tracking (Sub)system
3. Communications Technology Satellite

CU
University of Colorado

C-V
Capacitance-Voltage

CVA
Concurrent Viterbi Algorithm

CVD
1. Chemical Vapor Deposition
2. Communication Value Development, (Gt. Brit.)

CVFP
Charted Visual Flight Procedure

CVN
Carrier Vessel, Nuclear
(Designates a nuclear power aircraft carrier)

CVP
Central Venous Pressure

CVT
Concept Verification Testing

CVTE
Crystals by Vapor Transport Experiment

C&W
Caution and Warning System

CW
Continuous Wave

CWA
Center Weather Advisory

CWBS
Contract Work Breakdown Structure

CWL
Chemical Warfare Labs., Army Chemical Center, Md.

CW Radar
Continuous Wave Radar

CWS
Caution and Warning System (Space Shuttle)

CY
Calendar Year

CZCS
Coastal Zone Color Scanner

D

- D
Absorbed Dose
- D&C
Displays and Controls (Space Shuttle)
- DA
Detroit Arsenal Center Line, Mich.
- DAAC
Distributed Active Archive Center
- DABS
Discrete Address Beacon System
- DAC
Data Acquisition Camera
- DAD
Dual Air Density
- DADS
Data Archive and Distribution System
- DAE
Dynamics Augmentation Experiment
- DAEC
Danish Atomic Energy Commission, Roskilde
- DAEMO
Data Adaptive Evaluator & Monitoring System System
- DAIR
Direct Altitude Identity Readout
(Terminal radar facility for air traffic control)
- DAIS
Defense Automated Integrated Switching System
- DAMP
Downrange Antimissile Measurement Program

DAP

1. Digital Autopilot
2. Distributed Array Processors

DAPP

Data Acquisition and Processing Program (Later DMSP)

DAQBU

Data Acquisition and Buffering Unit

DARCOM

Development and Readiness Command (Army)
(Previously AMC-Army Material, Comd. MRDC - Mil. Requirement and
Development Committee)

DARPA

Defense Advanced Research Projects Agency (DOD)

DART

Decomposed Ammonia Radiosotope Thruster

DAS

Data Acquisition System

DASA

Defense Atomic Support Agency, Washington, D.C.
(Center DNA - Defense Nuclear Agency)

DAST

Drones for Aerodynamic and Structural Testing

DAVID

1. Device for the Acquisition and Visualization of Interesting Data
2. Distributed Access View Integrated Database

DAZAL

Modification of Polytaz

DB

Data Base

DBA

Data Base Administrator

DBM
Data Base Management

DBS
1. Direct Broadcast Sounder
2. Direct Broadcast Satellite

DC
Data Camera

DCAS
Deputy Commander Aerospace Systems, Air Force Systems Command, Inglewood, Calif.

DCE
Droplet Combustion Experiment

DCF
1. Data Capture Facility
2. Dynamic Coersive Force

DCL
Digital Equipment Corporation (DEC) Command Language

DCM
Display and Control Module (Space Shuttle)

DCP
Data Collection Platform(s)

DCS
1. Data Collection System
2. Decompression Sickness
3. Defense Communications System

DCS/D
Deputy Chief of Staff (Development), Washington, D.C.

DCS/O
Deputy Chief of Staff (Operations), Washington, D.C.

DCU
1. Digital Control Unit
2. Data Command Unit

DDA
Digital Differential Analyzer

DDAS
Digital Data Acquisition System

DDRB
Danish Defense Research Board

DDT
1. Deflagration to Detonation Transition
2. Dichloro-diphenyl-trichloro-ethane

DE
1. Dose Equivalent
2. Dynamics Explorer

DEA
Direct Eigenspace Assignment

DEE
Dexterous End Effector

DEGON
Diethyleneglycoldinitrate

DEHP
Diethyl Hydrogen Phosphite

DEMUR
Double Electron Muon Resonance

DEMUX
Demultiplexer

DEW
1. Directed Energy Weapons (lasers)
2. Distant Early Warning Line

DF
Direction Finding

DFBM
Digital Fly-By-Wire system

DFI
Development Flight Instrumentation (Space Shuttle)

DFRC
Dryden Flight Research Center (NASA)
(Formerly FRC - Flight Research Center)

DFG
Deutsche Forschungsgemeinschaft, (German Research Assoc.)

DFT
Deep Space Network Frequency and Timing system

DFVLR
Deutsche Forschungs-und Versuchsanstalt fuer Luft-and Raum fahrt
(German Research and Development Institute for Air and Space Travel)

DH
Decision Height

DHE
Data-Handling Electronics (Space Shuttle)

DIA
Defense Intelligence Agency, Washington, D.C.

DIAL
Differential-Absorption LIDAR

DIALEX
Differential Absorption Lidar Experiment

DIDSY
Dust Impact Detection System

DIGM
Diffusion Induced Grain Boundary Migration, (in crystal lattices)

DIGS
Delta Inertial Guidance System, ERTS

DIPS
Dynamic Isotope Power System

DISCOS

Disturbance Compensation System (satellite attitude control)
(Equipment on NOVA satellite-Transit Satellite)

DISCOS computer program

Dynamic Interaction Simulation of Controls and Structure program
(for the dynamic simulation and stability analysis of spacecraft)

DISPO

Display Interactive System of Orbit Planning

DIVOT

Digital to Voice Translator

DLR

Deutsche Forschungsanstalt für Luft-und Raumfahrt
(Federal German aerospace research establishment)

DM

Docking Module

DMA

1. Direct Memory Access
2. N, N-Dimethylacetimide

DMAAC

Defense Mapping Agency Aerospace Center
(Formerly ACIC-Aeronautical Chart and Information Center)

DMAC

Modification of Tazal

DME

1. Direct Measurement Explorer (Satellite)
2. Distance Measuring Equipment

DMF

1. Digital Matched Filter
2. Dimethylformamide

DMOS

Diffusive Mixing of Organic Solutions

DMR
Differential Microwave Radiometer

DMS
1. Data Management System
2. Differential Maneuvering Simulator

DMSP
Defense Meteorological Satellite Program

DMSF
Defense Meteorological Satellite Program (Formerly DAPP)

DN
(Unit of measure-Shaft speed in rmp multiplied by the bearing bore in mm)

DN-RI
Department of the Navy, Rome (Italy)

DNA
Deoxyribonucleic acid

DNDC
Department of National Defense (Canada)

DNH
Nucleonhistone

DOAS
Differential Optical Absorption Spectroscopy

DOC
1. Department of Commerce
2. Direct Operation Costs
3. Discipline Operations Center

DoD
Department of Defense

DOE
Dept. of Energy (Supplants AEC, ERDA, and ERA)

DOF
1. Degree of Freedom
2. Direction of Flight

DOI
Department of Interior

DOMSAT
Domestic Satellite

DOP
Dilution Of Precision

DOT
Department of Transportation

DPA
Destructive Physical Analysis

DPCL
Dedicated Payload and Communication Links

DPF
Dynamic Pressure Feedback

DPG
Dugway Proving Ground, Utah

DPM
Disintegrations Per Minute (Radioactive decay)

DPS
1. Data Processing System (Space Shuttle)
2. Distributed Parameter Systems

DPS/OTA YTS
Yuma Test Station, Ariz.

DPRS
Dynamic Preferential Runway System

DRAM
Dynamic Random Access Memory

DRB
Defense Research Board (Canada)

DRC
Discoverer Recovery Capsule

DRCL
Defense Research Chemical Labs (Canada)

DREWS
Direct Readout Equatorial Weather Satellite

DRG
Data Receiver Group

DRML
Defense Research Medical Labs (Canada)

DRNL
Defense Research Northern Lab (Canada)

DRTE
Defense Research Telecommunications Establishment (Canada)

DRTS
Data Relay Tracking Satellite

DRVID
Differenced Range Versus Integrated Doppler

DS

1. Digital Subsystems
2. Docking System

DSAE
Data Storage Electronics Assembly

DSB
Double Sideband

DSBSC
Double Sideband Suppressed Carrier

DSCG
Directional Solidification Crystal Growth

DSCS
Defense Satellite Communications System

DSCT
Directional Solidification of Cadmium Telluride

DSIF
Deep Space Instrumentation Facility

DSIP
Delta Sleep Inducing Peptides

DSIS
Directorate of Scientific Information Service (Canada)

DSN
Deep Space Network

DSP
Defense Support Program (Geosynchronous DOD satellite)

DSS
Decision Support Systems

DST
Data Systems Test

DSUWG
Data Systems Users Working Group

DT
Drive Tube

DTA
Differential Thermal Analysis

DTL
Diode-Transistor Logic

DTMB
David Taylor Model Basin, Washington, D.C.

DU

Digital Unit

DUMAND

Deep Underwater Muon and Neutrino Detector

DUR

Duration (Mission duration of each Shuttle flight)

DVLBI

Differential Very Long Baseline Interferometry

DVOR

Doppler Very-High-Frequency Omnidirectional Range (VOR)

DWBA

Distorted Wave Borne Approximation

DXS

Diffuse X-ray Spectrometer

E

e
Electron

E
Energy

E(r)
Earth radius

EAL
Engineering Analysis Language

EAP
Ethanolamineperchlorate

EAGLE
Energy Absorbing Gas Lithium Ejector

EAR
Electronically Agile Radar

EAS
Extensive Air Showers (Cosmic Rays)

EASE
Eva Assembly of Structures Experiment

EASE/ACCESS
Experimental Assembly of Structures in EVA/Assembly Concept for Construction of Erectable Space Structures

EASEP
Early Apollo Science Experiments Package

EBIC
Electron-Beam-Induced Current (conductivity)
(a scanning electron microscope mode)

EBR
Experimental Breeder Reactor (Power Reactor)

EBR-II
Experimental Breeder Reactor-II

EBW/FU
Exploding Bridge Wire/Firing Unit
(Devices for igniting rocket propellants)

EBWR
Experimental Boiling Water Reactor

ECAC
Electromagnetic Compatibility Analysis Center, Annapolis, Md.

ECAM
ERTS Command Auxiliary Memory

ECAN
Electronic Calibration and Normalization

ECC
Electrochemical Concentration Cell

ECEL
Epithermal Critical Experiments Laboratory

ECG
Electroepitaxial Crystal Growth

ECLS
Environmental Control and Life Support

ECLSS
Environmental Control and Life Support System (NASA)

ECM
Electronic Counter Measure

ECMWF
European Centre for Medium Weather Forecasts

ECRH
Electron Cyclotron Resonance Heating

ECS

1. Energy Conversion Subsystem
2. Environmental Control System
3. EOSDIS Core System

ECT

Emulsion Chamber Technology

EDC

EROS Data Center

EDCO

Extended Duration Crew Operations

EDH

Ethylenedihydrazine

ED10

(10% of the Population Showing Physiological Response to Ionizing Radiation)

EDIS

Environmental Data and Information Service

EDK

Electric Dynamic Katathermometer

EDO

Extended Duration Orbiter

EDOS

EOS Data and Operations

EDQNM

Eddy Damped Quasi-Normal Markovian

EDRS

European Data Relay Satellite

EDS

1. Edit and Decommuation System
2. Emergency Deorbit System (NASA)
3. Emergency Detection System
4. Energy Dispersive X-ray Spectrometer

EDSA
Electrical Distribution System Analysis

EDT
Eastern Daylight Time

EDTA
Ethylenediamine Tetraacetic Acid

EED
Electronic Explosive Device

EEG
Electroencephalogram

EEPROM
Electronically Erasable Programmable Read Only Memory

EEU
Extravehicular Excursion Unit

EEVT
Electrophoresis Equipment Verification Test

EF
Exposed Facility

EFAS
En Route Flight Advisory Service

EFCR
Experimental Fast Ceramic Reactor

EFG
Edge-Defined Film-Fed Growth (Photovoltaics)

EGA
Emissivity Growth Approximation

EGCR
Experimental Gas Cooled Reactor

EGO

1. Eccentric Geophysical Observatory (Also EOGO, NASA)
2. ExtraGalactic Optical Object

EGRET

Energy Gamma Ray Experiment Telescope (Explorer)
(to be flown on HEAO-B spacecraft)

EH

Equivalent Hertz

EHF

Extremely High Frequency

EHIC

Energetic Heavy Iron Experiment

EI

(Measure of Bending Stiffness)

EIRP

Equivalent Isotropically Radiated Power

EISG

Experimental Investigations of Spacecraft Glow

EIVT

Electrical and Instrumentation Verification Test (NASA)

EKG

Electrocardiogram

EL

Exposure Limits

ELAS

Equilibrium Problems of Linear Structures

ELDO

1. European Launching Development Organization
2. European Space Vehicle Launcher Development Organization
(Now ESA - European Space Agency)

ELF
Extremely Low Frequency

ELI Alloys
Extra Low Interstitial Grade

ELISA
Enzyme Linded Immunosorbent Assay(s)

ELM
Experiment Logistics Module

ELMS
Earth Limb Measurement System

ELRAD
Earth-Limb Radiance Equipment

ELS
Emergency Landing Site

ELT
Emergency Locator Transmitter

ELV
Expendable Launch Vehicle

EM
Electromagnetic

EMC
Electromagnetic Compatibility

EMCAT
Emergency Management Computer Aided Trainer

emf
Electromotive force

EMF
Explicit Model Following

EMG
Electromyogram

EMI
Electromagnetic Interference

EML
Equatorial Magnetosphere Laboratory
(Satellite in the OPEN program)

EMR
Electromagnetic Radiation

EMSS
Experimental Mobile Satellite System

EMU
Extravehicular Maneuvering Unit

ENAP
Energetic Neutral Atom Precipitation

ENDF
Evaluated Nuclear Data File (AEC)

ENO
Essentially Non-Oscillatory

ENSO
El Nino Southern Oscillation

EO
1. Earth Escape Orbit
1. Earth Orbit
2. Electro-Optical

EOC
EOS Operations Center

EOCR
Experimental Organic Cooled Reactor

EOGO
Eccentric Orbiting Geophysical Observatory
(Also EGO - NASA)

EOICWG

Earth Observations International Coordination Working Group

EOIM

Evaluation of Oxygen Interaction with Materials

EOL

End of Life

EOMV

Enhanced Orbital Maneuvering Vehicle

EOPAP

Earth and Ocean Physics Application Program (NASA)

EOR

Earth Orbit Rendezvous

EOS

1. Earth Observing System
2. Equations of State

EOS-AERO

EOS Aerosol (Shuttle payload to observe aerosols in the atmosphere)

EOS-ALT

EOS Altimeter (Shuttle payload to observed ocean circulation and global ice sheet mass balance)

EOS-AM

EOS A.M. (Shuttle payload to observe clouds, aerosols, radiative balance, and characterization of terrestrial surface)

EOS-CHEM

EOS Chemistry (Shuttle payload to observe atmospheric chemical species and their transformations, and ocean surface stress)

EOS-PM

EOS P.M. (Shuttle payload to observe clouds and precipitation, terrestrial snow and sea ice, and sea surface temperature and ocean productivity)

EOSDIS

EOS Data/Information System

EOSP
Earth Observing Scanning Polarimeter

EP
Explosive Package

EPA
Environmental Protection Agency

EPE-D
Energetic Particle Explorer

EPG
Electrical Power Generator (Space Shuttle)

EPIRB
Emergency Position Indicating Radio Beacon

EPNDB
Effective Perceived Noise in Decibels

EPOCS
Equatorial Pacific Ocean Climate Studies

EPR
Electron Paramagnetic Resonance

EPROM
Electronically Programmable Read Only Memory

EPS
Electrical Power System

ERB
Earth Radiation Budget

ERBE
Earth Radiation Budget Experiment

ERBS
Earth Radiation Budget Satellite

ERDA
Energy Research Development Act

ERDE
Explosives Research and Development Establishment, (Gt. Brit.)

EREP
Earth Resources Experiment Package
(Skylab - NASA)

ERG
Electroretinogram

ERIC
Educational Resources Information Center

ERL
Environmental Research Laboratory (NOAA)

EROS
Earth Resources Observation Systems (DOI)

EROS PROJECT
Experimental Reflector Orbital Shot Project

ERS
Earth Remote-Sensing Satellite

ERS-1
ESA Remote Sensing Satellite-1

ERTS
Earth Resources Technology Satellite

ESA
European Space Agency

ESA-x
European Space Agency-x (Foreign Reimbursable Hitchhiker-G payload
sponsored by the ESA)

ESAD
Earth Science and Application Division

ESC
1. Engineering Support Center
2. European Space Conference

E-SCAN
Electronically Scanned Antennas

ESDIS
Earth Science Data and Information System

ESF
Elementary Symmetric Function

ESG
Electrically Suspended Gyroscope

ESGP
Earth Science Geostationary Platform

ESMR
Electrically Scanning Microwave Radiometer

ESO

1. Electrically Scanning Microwave Radiometer (NASA)
2. Electronic Systems Div., Air Force Systems Command, Bedford, MA
3. European Southern Observatory

ESPOD
Electronic Systems Precision Orbit Determination (AF)

ESR
Electron Spin Resonance

ESRI
Environmental Systems Research Institute (NASA)

ESRO
European Space Research Organization
(Now ESA - European Space Agency)

ESS
Environmental Satellite Subpanel

ESSA
Environmental Science Services Administration
(Now NOAA - National Oceanic and Atmospheric Admin.)

ESSERGY

Essential Energy (Chemical systems)

EST

Eastern Standard Time

ESTAR

Electronically Scanned Thinned Array Radiometer

ESTEC

European Space Research and Technology Center (Neth.)

ESTRACK

European Space Tracking (Network)

ET

1. Effective Temperature
2. External Tank (Space Shuttle)
3. Evapotranspiration

ETA

1. Estimated time of arrival
2. External Tank Attack

ETDE

Energy Technology Data Exchange

ETR

1. Eastern Test Range
2. Engineering Test Reactor

ETS

Engineering Test Satellite

EUMETSAT

European Organisation for the Exploitation of Meteorological

Satellites

EURAD

European Acid Decomposition

EURECA

European Retrievable Carrier

EUV
Extreme Ultraviolet (Wavelengths ~ 100-200 nm)

EUVE
Extreme Ultraviolet Explorer

EV
Electron Volts

EVA
Extravehicular Activity

EVADE
Evaluation of Air Defense Effectiveness

EVA/IVA
Extra-Vehicular Activity/Intra-Vehicular Activity

EVAS
Extravehicular Activity System

EVCS
Extravehicular Communications System
(Space Shuttle)

EVS
Equipment Visibility System

EXAMETNET
Experimental Inter-American Meteorological Rocket project (NASA)

EXITE
Energetic X-ray Imaging Telescope Experiment

EXOSAT
European X-ray Observatory Satellite

EXPOS
(X-ray spectropolarimetry payload on Spacelab)

F

FA
Frankfort Arsenal Philadelphia, Pa.

FAA
Federal Aviation Agency/Administration

FAF
Final Approach Fix

FAGE
Fluorescence Assay with Gas Expansion

FAI
Field-Aligned Irregularity

FAR
1. Federal Air Regulations
2. Federal Aviation Regulations

FARE
Fluid Acquisition and Resupply Experiment

FASINEX
Frontal Air-Sea Interaction Experiment

FAST
Fast Auroral Snapshot Explorer

FAUST
Far Ultraviolet Space Telescope

FAX
Facsimile Transmission

FBFM
Feedback Frequency Modulation

FBIS
Foreign Broadcast Information System

FBM Weapon System
Fleet Ballistic Missile Weapon System

FC
Fuel Cell (Space Shuttle)

FCA
Flow Control Assembly (Space Shuttle)

FCC
1. Face Center Cubic Crystal
2. Federal Communications Commission

FCHP
Feedback Controlled Heat Pipes

FCI
Full Configuration-Interaction (Quantum Chemistry)

FCOS
Flight Control Operating System (Space Shuttle)

FCP
Fuel Cell Power (Plant, Space Shuttle)

FCS
Flight Control System (Space Shuttle)

FDA
1. Fault Detection and Accommodation
2. Fault Detection and Annunciation (Space Shuttle)
3. Food and Drug Administration

FDD
Foreign Documents Div., Central Intelligence Agency, Washington, D. C.
(Now under FBIS)

FDE
Fluid Dynamics Experiment

FDI&R
Failure Detection Identification and Control System Reconfiguration

FDM
Frequency Division Multiplexing

FDMA
Frequency-Division Multiple Access

FDMDA
Full Diameter Motorized Door Assembly

FDP
1. Fatigue Decreased Proficiency
2. Flight Data Processing

FDSU
Flight Data Storage Unit

FEA
1. Finite Element Analysis
2. Fluid Experiment Assembly

FEBA
Forward Edge Battle Area

FEE
French Echocardiograph Equipment

FEL
First Element Launch

FEM
Finite Element Modeling

FEP
1. Fluoroethylkene Polymer
2. Fountain Effect Pumps

FES
Flash Evaporator System (Space Shuttle)

FESR
Finite Energy Sum Rules (Physics)

FET
Field Effect Transistor

FF

1. First Flight
2. Free-Flyer

FFE

Full Flight Envelope

FFTF

Fast Flux Test Facility (Nuclear Reactor)

FFTO

Free-Flying Teleoperator
(Remotely controlled cybernetic man-machine system for the Space Shuttle)

FGGE

First GARP Global Experiment

FGS

Fine Guidance Sensors

FHR

Fetal Heart Rate

FIFE

First ISLSCP Field Experiment
(International Satellite Land-Surface Climatology Project)

FIG

Fiber Interferometer Gyroscope

FIM

Field Intensity Meter

FIR

Flight Information Region

FIRAS

Far Infrared Absolute Spectrometer

FIRE

First ISCCP Regional Experiment
(ISCCP International Satellite Cloud Climatology Project)

FIREX

1. Free Flying Imagine Radar Experiment
2. Fire Extinguishing System
3. Firing Exercise

FIREX/SAMEX

Free Flying Imaging Radar Experiment/Soviet American Microwave Experiment

FIRST

Fabrication of Inflatable Reentry Structures for Test

FITH

Fire in the Hole Technique

FITS

Flexible Image Transport System

FIXS

Fourier Imaging X-ray Spectrometer

FJPS

Field Joint Protection System

FL

Flight Level

FLAT

1. Flight-Plane-Aid Tracking
2. Foreign Language Aptitude Test

FLOATZONE

Float Zone Crystal of Cadmium Telluride

FLOX

Fluorine-Liquid Oxygen

FLSC

Flexible Linear-Shaped Charge

FLT

Flight

FLTSATCOM

Fleet Satellite Communications

FM

1. Facility Management
2. Facility Module (Man-tended module in support of ISF providing space for middeck locker inserts and common racks for payload accommodations)
3. Failure Mode (Space Shuttle)
4. Frequency Modulation

FMAD

Fluid Management and Distribution

FMEA

Failure Modes and Effects Analysis (Space Shuttle)

FMECA

Failure Modes, Effects, and Criticality Analysis

FMFB

Frequency Demodulator using FeedBack

FM/FM

Double Frequency Modulation

FMS

Fluid Management System

FOC

1. Faint Object Camera
2. Fiber-Optic Cable
3. Full Optional Capability

FOCAL

Francais Ocean et Climat dans l'Atlantique

FOCS

Fiber Optic Chemical Sensors

FOG

Fiber Optic Gyroscope

FOGW

Fiber Optic Ground Wire

FOMS
Future Operational Microwave Sounder

FOS
Faint Object Spectrograph

FOT
Frequency Optimum Traffic

FoV
Field of View

FPD
Flight Planning Document

FPE
French Postural Experiment

FPIM
Fluorescent Penetrant Inspection Module

FPL
Forest Products Lab., (Dept. of Agric.) Madison, Wis.

FPRC
Flying Personnel Research Committee (Gt. Brit.)

FRC

1. Field Reversed Configuration
2. Flight Research Center (Later DFRC - NASA)
3. Full Route Clearance Necessary

FRCI
Fiber Reinforced Composite Insulation

FRCS
Forward Reaction Control System (Space Shuttle)

FREL
Feltman Research and Engineering Lab., Picatinny Arsenal, Dover, N. J.

FRL
Feltman Research Labs., Picatinny Arsenal, Dover, N. J.

FRMS

Federation of Rocky Mountain States

FROZEPIPE

Frozen Startup of a Heat Pipe in Microgravity

FSD

Flying Spot Digitizer

FSM

Fault Summary Message (Space Shuttle)

FSP

Flight Strip Printer

FSPCM

Flight Strip Printer Control Module

FSS

1. Fixed Satellite Service
2. Flight Service Station
3. Flight Support Structure (Space Shuttle)
4. Flight Support System
5. Flutter Suppression System

FSW

1. Feet of Seawater (33 FSW = 1 Atmosphere)
2. Flight Software (Space Shuttle)

FTA

Fault Tree Analysis

FTD

Foreign Tech. Div., Air Force Systems Command, Wright-Patterson Air Force, Ohio

FTIR

Fourier Transform Infrared (Spectroscopy)

FTS

1. Federal Telecommunications System
2. Flight Telerobotic Servicer
3. Flight Telerobotic System
4. Fourier Transform Spectroscopy

FUSE
Far Ultraviolet Spectroscopic Explorer

FUV
Far Ultraviolet

FWF
Fleet Weather Facility

FY
Fiscal Year

G

g

1. Gluon
2. Gram

G

1. (Gravitational Force/Constant)
2. Giga (billion)

GAC

Global Area Coverage

GALCIT

1. Graduate Aeronautical Lab., Cal. Inst. Technology
2. Guygenheim Deronautical Lab., (at Col. Inst. of Technology)

GALE

Genesis of Atlantic Lows Experiment

GAMA

General Aviation Manufacturers Association

GAMP

1. Global Atmospheric Measurements Program (NSF)
2. Group Agromet Monitoring Project

GAO

General Accounting Office

GARP

Global Atmospheric Res. Program
(Sponsored by the World Meteorological Organization)

GAS

Get-Away Special (Space Shuttle)

GAS BRIDGE

Get-Away Special Bridge (Holds up to 12 GAS canisters)

GASCAN

Get-Away Special Cannister

GASP

1. General Aviation Synthesis Program
2. Global Atmospheric Sampling Program (NASA)
3. Global Air Sampling Program
4. (NASA Ames Computer Program)

GATE

1. GARP Atlantic Tropical Experiment
2. Getaway Tether Experiment

Gb

Gigabit

Gbps

Gigabits per second

GCA

Ground Controlled Approach

GCDIS

Global Change Data and Information System

GC/MS

Gas Chromatograph/Mass Spectrometer

GCM

General Circulation Model

GCP

1. Glass-Cloth Phenolic
2. GLO CRYOHP Payload

GCR

1. Galactic Cosmic Radiation
2. Gas Cooled Reactor

GDHS

Ground Data Handling System

GDMA

Glycol Dimethacrylate

GDOP

Geometric Dilution of Precision

GDR

1. Geophysical Data Records
2. Giant Dipole Resonance

GDSCC

Goldstone Deep Space Communication Complex

GE

General Electric American Communications, Inc.

GEI

Ground Environmental Instrumentation

GEM

Goddard Earth Model (of gravity)

GEMT1

Goddard Earth Model T1

GEMT2

Goddard Earth Model T2

GEO

Geosynchronous Earth Orbit

GEODSS

Ground-Based Electro-Optical Deep Space Surveillance

GEOS

Geodynamic Experimental Ocean Satellite

GEOSAR

Geosynchronous Earth Orbit Synthetic Aperture Radar

GEOSARI

GEOS launch by Ariane
(ESA geostationary satellite with elliptical orbit)

GEP

Goddard Experiment Package Telescope

GERT

Graphical Evaluation and Review Techniques

GET
Ground Elapsed Time

GETR
General Electric Test Reactor

GeV
Gigaelectronvolts

GEWEX
Global Energy and Water Cycle Experiment

GFCR
Gas Filter Correlation Radiometry

GFDL
Geophysical Fluid Dynamics Laboratory

GFFC
Geophysical Fluid Flow Cell
(A model prepared for Spacelab flights which is concerned with convective instability in vertically unstable atmospheres)

GFY
Government Fiscal Year

GGs
Global Geospace Study

GHCD
Growth Hormone Concentration & Distribution in Plants

GHz
Gigahertz

GI
Gastro-Intestinal

GIDEP
Government-Industry Data Exchange Program

GIFOV
Ground Instantaneous Field of View

GIMMS

Global Inventory Modeling and Monitoring System

GIMRADA

Geodesy, Intelligence and Mapping Research and Development Agency, Fort Belvoir, Va.
(Army Engineer)

GIPSY

Generalized Information Processing SYstem

GIS

Geographic Information System

GISS

Goddard Institute for Space Science

GJ

Measure of Torsional Stiffness

GLAS

Goddard Laboratory for Atmospheric Sciences

GLC

Gravity Induced Loss of Consciousness

GLIS

Global Land Information System

GLO

Shuttle Glow (Hitchhiker payload to measure optical emissions observed on the surface of spacecraft and Shuttle)

GLOMR

Global Low Orbit Message Relay

GLOTRAC

Global Tracking Network

GLOWATS

Global War Avoidance Telecommunications System

GLRS

1. Geodynamics Laser Sensing System
2. Geoscience Laser Ranging System

GMS
Geostationary Meteorological Satellite

GMT
Greenwich Mean Time

GNC
Guidance, Navigation, and Control (Space Shuttle)

GOA
Geometrical Optics Approximation

GOAT
Grouped Optimal Aggregation Technique

GOES
Geostationary Operational Environmental Satellite

GOC
Ground Operations Coordinator (NASA)

GOLIATH
Giant On-Line Instrument for the Acquisition and Total Handling of data

GOSAMR
Gelation of Sols: Applied Microgravity Research

GOSS
Ground Operational Support System

GOX

1. Gaseous Oxygen
2. Gaseous Quantum Container

GP-B
Gravity Probe-B Experiment

GPC
General Purpose Computer (Space Shuttle)

GPS
Global Positioning System

GRAM
Global Reference Atmosphere Model

Gr/E
Graphite-Epoxy

GRIST
Grazing Incidence Solar Telescope (for Spacelab)

GRID
Gamma Ray Imaging Device

GRIS
Global Resources Information System

GRITS
Gamma Ray Imaging Telescope System

GRM
Geopotential Research Mission

GRO
Gamma-Ray Observatory

GRP
Glass Reinforced Plastic

GRS

1. Geometric Radiating Surface
2. Great Red Spot
3. Gamma-Ray Source
4. Gamma-Ray Spectrometer (from SMM)

GSA
General Services Administration

GSE
Ground Support Equipment

GSFC
Goddard Space Flight Center

GSO
Geosynchronous Orbit

GSTDN
Ground Spaceflight Tracking and Data Network

GT
Global Temperature

GTA
Gas Tungsten Arc

GTC
Grand Tour Cluster

GTE
Global Tropospheric Experiment (NASA)

GTF
Ground Test Facility

GTL
Geomagnetic Tail Laboratory (Satellite in the OPEN program)

GTO
1. Geosynchronous Transfer Orbit
2. Guaranteed Observing Time

GV
Gigavolt

GVB
Generalized Valence Band (Quantum chemistry)

GW
Gravitational Wave

gx
(Vibrational Acceleration in the Direction of the X-Axis)

Gy
Gray (Radiation dosage unit of measure)

gy
(Vibrational Acceleration in the Direction of the Y-Axis)

gz

(Vibrational Acceleration in the Direction of the Z-Axis)

H

HAA

Height Above Airport

HALO

High Altitude Large Optics

HALOE

Halogen Occultation Experiment

HANDS

High Altitude Nuclear Detection Studies

HAO

High Altitude Observatory
(Boulder, Colo.-Nat. Ctr. for Atmospheric Research)

HARCO

Hyperbolic Area Coverage System (Navigation)

HARV

High Alpha Research Vehicle

HASP

1. Hand Altitude Sounding Projectile
2. High Altitude Space Platform

HAT

Height Above Touchdown

HAWK

Homing-All-the-Way Killer

HBCU

Historically Black Colleges and Universities

HBNQ

Nitroguanidine

HBWR

Halden Boiling Heavy-Water Reactor

HCF
Hardened Compact Fiber

HCI
Human-Computer Interface

HCMM
Heat Capacity Mapping Mission (NASA)

HCP
Hexagonal Close Packed Structures

HDC
Hybrid Driver Controller (Space Shuttle)

HDD
Human Disorientation Device

HDL
Harry Diamond Labs., Washington, D. C.

HE
High Eccentricity orbit

HEAO
High Energy Astronomical Observatory spacecraft

HECRE
High Energy Cosmic Ray Experiment

HED
1. Horizontal Electric Dipole
2. High Energy Detector

HEE
Human Energy Expenditure

HEF
High Energy Fuel

HEI
Human Exploration Initiative

HEIST
High Energy Isotope Spectrometer Telescope

HEL
Human Engineering Lab., Aberdeen Proving Ground, Md.

HELIO
Heliocentric

HEMT
High Electron Mobility Transistor

HENRE
High Energy Neutron Reaction Experiment (AEC)

HEO
1. High Earth Orbit
2. Highly Elliptical Orbit

HERF
High Energy Rate Forming of Powdered metals (Forging)

HERO
Hazards of Electromagnetic Radiation to Ordnance

HERS
High Energy Range Spectrometer (GIOTTO)

HESP
High Energy Solar Physics

HET
Health/Education Telecommunications (Experiment)

HETE
High Energy Transient Experiment

HEUS
High Energy Upper Stage (Engine)

HEW
Department of Health, Education and Welfare

HF
High Frequency

HFE
1. Heat Flow Experiment
2. Human Factors Engineering

HFSS
High-Frequency Sounder System

HGA
High-Gain Antenna

HH-G
Hitchhiker-G (Shuttle cargo bay sidewall mounted carrier for small
experiments)

HH-G1
Hitchhiker-G1 (Demonstration flight of Hitchhiker-G hardware)

HH-M
Hitchhiker-M (Shuttle cargo bay across-bay carrier for small
experiments)

HHS
Health and Human Services

HICAT Project
1. High Resolution Coverage Antenna Technique
2. High Altitude Clear Air Turbulence

HIIS
Heavy Ions In Space

HILAT
High Latitude Satellite

HiMAT
Highly Maneuverable Aircraft Technology

HIP
Hot Isostatic Pressing

HIPLEX
High Plains Cooperative Program (Big Springs, Texas)

HiRAP
High Resolution Accelerometer Package

HIRDLS
High-Resolution Dynamics Limb Sounder

HIRIS
High Resolution Imaging Spectrometer

HIRL
High Intensity Runway Lights

HIRS
High Resolution Infrared Sounder

HIRS/MSU
High Resolution Infrared Sounder/Microwave Sounding Unit

HIRT
High Reynolds Number Tunnel

HISM
Hot Interstellar Medium

HITAB Program
High-Altitude Target and Background Program

HIVES
High Volume Electrostatic Sampler

HIVOS
High Vacuum Orbital Simulator

HLH
Heavy-Lift Helicopter

HLLV
Heavy Lift Launch Vehicle

HMB
3-hydroxy-3-methyl butene

HMC
Halley Multicolor Camera

HMD
Helmet-Mounted Display

HME
Handheld Microgravity Experiment

HMF
Health Maintenance Facility

HMMR
High Resolution Multifrequency Microwave Radiometer
(Earth Observing System, EOS)

HMX
Cyclotetramethylene Tetranitramine

HNPF
Hallam Nuclear Power Facility

HNST
Hexanitrostilbene

HOE
Holographic Optical Elements

HOL
High-Order Language

HOPE
Halley Optical Probe Experiment

HOPE Spacecraft
Hydrogen Oxygen Spacecraft

HO-W
Hydrographic Office Washington, D. C.

HPCG
Handheld Protein Crystal Growth

HPCI
High Performance Computing Initiative

HPE
Hexakis (NF2) Dipropyl Ether

HPM
High Performance Motor

HPOTP
High Pressure Oxidizer Turbopump

HPP
Heat Pipe Performance & Working Fluid Behavior in Micro-gravity

HPTE
High Precision Tracking Experiment

HPU
1. Hydraulic Power Units
2. Hydraulic Pumping Unit

HQS
Headquarters

HRIR
High Resolution Infrared Radiometer

HRIS
High Resolution Infrared Sounder

HRMA
High Resolution Mirror Assembly

HRPT
High-Resolution Picture Transmission

HRS
High-Resolution Spectrograph

HRSGS
High Resolution Shuttle Glow Spectroscopy

HRTC
High Resolution Telescope Cluster

HRTEM
High Resolution Transmission Electron Microscopy

HRTS
High Resolution Telescope and Spectrograph
(Orbiting Solar Laboratory)

HS-376 RET
HS-376 Retrieval (Salvage of HS-376 communications satellites
launched on the tenth Shuttle mission)

HSCT
High Speed Civil Transport

HSI
1. High-Speed Interferometer
(Space-developed remote detector of smog)
2. Horizontal Situation Indicator

HSM
Harmonic Subcarrier Method

HSRP
High Speed Research Program

HST
1. Hubble Space Telescope
2. Hypersonic Transport

HSTDEK
Hubble Space Telescope Design/Engineering Knowledge base

HSTSM
Hubble Space Telescope Salvage Mission

HSVP
High Speed Vector Processor

HTAH
High Temperature Air Heat (for Magnetohydrodynamics power plants)

HTFFR
High Temperature Fast Flow Reactor

HTGR
High Temperature Gas-cooled Reactor

HTPB
Hydroxy Terminated Polybutadiene Polymer (Propellant)

HUD
1. Head Up Display
2. Department of Housing and Urban Development

HVAC
High-Voltage Alternating Current

HWCTR
Heavy Water Components Test Reactor

HXIS
Hard X-ray Imaging Spectrometer

HXRBS
Hard X-ray Burst Spectrometer

HYD
Hydraulics (Space Shuttle)

HYMOSS
Hybrid Mosaic on Stacked Silicon

HZE
(High-ionizing high energy particles)

Hz
Hertz

IAC

Instantaneous Airborne Count

IAE

Instituto de Atividades Espaciais (Centro Tecnico Aeroespacial de Sao Jose dos campos - Brazil)

IAF

1. Image Analysis Facility
2. Initial Approach Fix

IAP

1. Instrument Approach Procedure
2. Intra-Abdominal Pressure

IAPS

Ion Auxiliary Propulsion System

IAU

International Astronomical Union

IBG

Intermediate BTU Gas

IBIS

1. Image Based Information System
2. Instrument for Biological Investigations In Space

IBM

International Business Machines Corp.

IBSE

Initial Blood Storage Equipment

IBSS

Infrared Background Signature Survey

IBSSU

Internal Bearing Stabilized Sighting Unit

(A stabilized platform for mounting target acquisition and designation instruments on the AH-1G Cobra attach helicopter)

IC
Integrated Circuit

ICAF
Industrial Coll. of the Armed Forces, Washington, D. C. (Later UND)

ICAM
Integrated Computer-Aided Manufacturing

ICAN
International Convention for Air Navigation (Commission for)

ICAO
International Civil Aviation Organization

ICAS
1. Interagency Committee for Atmospheric Science
2. International Council of the Aeronautical Sciences

ICASE
Institute for Computer Applications in Science and Engineering

ICB
Inertia Compensated Balance

ICBC
IMAX Cargo Bay Camera

ICBM
Intercontinental Ballistic Missile

ICCERSP
Interagency Coordinating Committee for Earth Resources Survey Programs

ICD
Interface Control Document

ICE
International Cometary Explorer

ICEM
Integrated Computer-Aided Engineering and Manufacturing

ICF
Instrument Control Facility

ICHM
Integrated Control and Health Monitoring

ICL
Image Composition Language

ICNI
1. Improved Communications, Navigation, and Identification
2. Integrated Communication, Navigation, and Identification

ICO
Interagency Committee on Oceanography, Washington, D. C. (Later, CMSER)

ICPP
Idaho Chemical Processing Plant

ICR
Inertial Confinement Fusion Reactor

ICRCCM
InterComparison of Radiation Code in Climate Models

ICRS
Intercom Remote Station (Space Shuttle)

ICSU
International Council of Scientific Unions

ICTAF
Interdisciplinary Center for Technological Analysis and Forecasting (at Tel-Aviv University)

IDA
Institute for Defense Analyses, Washington, D.C.

IDAMS
Image Display And Manipulation System (NASA)

IDC
Image Dissector Camera

IDECS
Image Discrimination, Enhancement, and Combination System
(Electronic Optical System)

IDENT
Aircraft Identification

IDEP
Interagency Data Exchange Program
(GIDEP - Government - Industry Data Exchange Program)

IDI
Inplane Displacement and Inertia

IDS
1. Image Dissector Scanner
2. Integrated Dynamic System

IDSP
Interim Digital SAR Processor

ID-GS
Intelligence Div., General Staff, Washington, D. C.

IE-A
Ionosphere Explorer-A

IECM
Induced Environment Contamination Monitor

IECO
Inboard Engine Cutoff

IEF
Isoelectric Focussing Experiment

IEH
International Extreme-UV Far-UV Hitchhiker

IEO
Intermediate Earth Orbit

IEOS
International Earth Observing System

IF
Intermediate Frequency

IFATCA
International Federation of Air Traffic Controllers Associations

IFF
1. If and only If (Logic/Mathematics)
2. Identification, Friend or FOE (Detection)

IFM
In-Flight Maintenance (Space Shuttle)

IFOV
Instantaneous Field-of-View

IFR
Instrument Flight Rules

IFYGL
International Field Year on the Great Lakes

IFWS
Integrated Flexible Welding System

IG
Igloo (Structure which provides a pressurized and thermally controlled environment for Spacelab pallet subsystems)

IGA
Intergovernmental Agreement

IGBP
International Geosphere-Biosphere Program

IGDR
Interim Geophysical Data Records

IGM
1. Intergalactic Media
2. Iterative Guidance Mode

IGRF
International Geomagnetic Reference Field

IGT
Improved Gas Turbine

IGY
International Geophysical Year

IHW
International Halley Watch

IIGS
Initial Image Generating Subsystem

IIP
Instantaneous Impact Predictor

IKI
Space Research Institute (USSR)

ILS
Instrument Landing System

IMAX
IMAX systems Corp., Toronto, Ontario, Canada

IMBLMS
Integrated Medical and Behavioral Laboratory Measurement System

IMC
Image Motion Compensation (Compensator)

IMCC
Integrated Mission Control Center (NASA)

IMCO
International Governmental Maritime Consultative Organization

IME
International Magnetospheric Explorer (NASA/ESRO)

IMF

1. Initial Mass Function
2. Interplanetary Magnetic Field

IMI
Inner Magnetosphere Imager

IML
International Microgravity Laboratory

IMP
Interplanetary Monitoring Platform (Explorer Satellites)

IMP-H
Explorer 47

IMP-J
Explorer 50

IMP 7
Explorer 47

IMP 8
Interplanetary Monitoring Platform

IMPACT
Ion Implementation Perturbed Angular Correlation Technique

IMPATT

1. Impactionization, Avalanche and Transit-Time
2. Impact Ionization Avalanche Transit Time (Solid State Diodes)

IMRA
Infrared Monochromatic Radiation

IMS

1. Information Management System
2. Ion Mass Spectrometer

IMSC
Independent Model Space Control

IMU
Inertial Measurement Unit (Space Shuttle)
(see also SDIMU)

INAA
Instrument Neutron Activation Analysis

INC
Intranuclear Cascade

INCL
Inclination

INF
Inland Navigation Facility

INFO
Ionic Difluoroamino Oxidizer

INIS
International Nuclear Information System

INMARSAT
International Microgravity Laboratory

INREQ
Information Request

INS
Inertial Navigation System

INSAT
Indian Satellite

INTEGRAL
International Gamma Ray Astrophysics Laboratory

INTELESAT-VI-R
INTELESAT-VI-Reboost

I/O
Input/Output

IOA
Independent Orbiter Assessment (Space Shuttle)

IOC

1. Initial Operational Capability
2. In-Orbit Construction
3. Intercell Ohmic Contact

IOCM

Interim Operational Contamination Monitor

IOM

Input/Output Module (Space Shuttle)

IOSV

Interorbital Space Vehicle

I/OCE

Input/Output Control Element

IPAC

Infrared Processing and Analysis Center

IPACS

Integrated Power/Attitude Control System

IPAD

Integrated Programs for Aerospace Vehicle Design

IPC

1. Interprocess Communications
2. Image Proportional Counter (Astronomy; HEAO-2)

IPIS

Interactive Parameter Identification System

IPIS-RAFB

Instrument Pilot Instructor School Randolph Air Force Base, Tex.

IPL

1. Image Processing Laboratory
2. Interplanetary Physics Laboratory
(Satellite in the OPEN program)

IPM

Interference Prediction Models

IPMP
Investigation into Polymer Membranes Processing

IPN
Interpenetrating Polymer Networks

IPOC
International Partner Operations Center

IPOD
Image Processor for Optical Data

IPS

1. Instrument Pointing System
2. Intermittent Positive Control
3. Isotope Power System

IPTS
International Practical Temperature Scale

IQSY
International Quiet Sun Year (1964-65)

IR

1. Imaging radar
2. Infrared
3. Ionizing Radiation

IR-IE
Infrared Imaging Equipment

IRAF
Interactive Data Reduction and Analysis Facility

IRAS
Infrared Astronomical Satellite

IRBM
Intermediate Range Ballistic Missile

IRCFE
Infrared Communications Flight Experiment

IRDA

1. Infrared Detection and Array
2. Infrared Detection and Acquisition

IRI

International Reference Ionosphere

IRIG

1. Inertial Reference Integration Gyro
2. Inter-range Instrumentation Group

IRIA

Infrared Information and Analysis

IRIS

1. Infrared Interferometer Spectrometer (Voyager)
2. Italian Research Interim Stage

IRLS

Interrogation Recording and Location System
(Naval Oceanographic Office)

IRT

Integrated Rendezvous Radar Target

IRTS

Infrared Telescope in Space

ISA

1. Interstage Adapter
2. International Standard Atmosphere

ISAC

INTELESAT Solar Array Coupons

ISAI AH

Israeli Space Agency Investigation About Hornets

ISAMS

Improved Stratospheric and Mesospheric Sounder

ISAS

Institute of Space and Astronautical Science (Japanese)

ISC
International Space Corporation

ISCAN
1. Inertialess Steerable Communications Antenna
2. International Sanitary Convention for Air Navigation

ISCCP
International Satellite Cloud Climatology Project

ISEE
International Sun-Earth Explorers

ISEM
ITA Standardized Experiment

ISF
Industrial Space Facility

ISIS
International Satellite for Ionospheric Study

ISLSCP
International Satellite Land-Surface Climatology Project

ISM
1. Independent Subcarrier Method
2. Interstellar Medium

ISO
Infrared Space Observatory

ISP
Specific Impulse

ISPM
International Solar Polar Mission

ISR
Infrared Scanning Radiometer

ISS

1. Imaging Science Subsystem
2. Ion Scattering Spectroscopy
3. Integrated Start System (Satellite)

ISSEC

Internal Spectral Shifter and Energy Converter

IST

Instrument Support Terminal

ISTO

Information Sciences Technology Office

ISTP

International Solar Terrestrial Physics (program)

ISV

International Space Year

ITE

Integral Throat and Entrances (of rocket nozzles)

ITL

Industries Test Lab., Philadelphia Naval Shipyard, Pa.

ITOS

Improved TIROS Operational Satellite

ITP

Intra-Thoracic Pressure

ITPR

Infrared Temperature Profile Radiometer

ITU

International Telecommunications Union

ITV

1. Instrumented Test Vehicle
2. Interplanetary Transfer Vehicle

IUE
International Ultraviolet Explorer

IUS
Inertial Upper Stage (Space Shuttle)

IUSB
Integrated Utility Systems Board

IUTE
Industry University Technology Experiment

I-V
Current/Voltage

IV
Intravenous

IV&V
Independent Verification and Validation

IVA
Intravehicular Activity

IWG
Investigator Working Group

J

- JACEE
Japanese-American Cooperative Emulsion Experiments
- JANNAF
Joint Army, Navy, NASA, and Air Force
- JATO
Jet Assisted Takeoff
- JAWS
Joint Airport Weather Studies
- JAZAL
(Modification of Polytaz)
- J x B
Crossed Field Devices
(Amplifier, MHD Generators)
- JEM
Japanese Experiment Module
- JERS
Japan's Earth Resources Satellite
- JIAFS
Joint Institute for Advancement of Flight Sciences
- JICST
Japanese Information Center for Science and Technology
- JOCR
Joint Observatory for Cometary Research
- JOSE
Joint Optics Structures Experiment
- JPL
Jet Propulsion Laboratory

JPRS

Joint Publications Research Service
(Dept. of Commerce, translations)

JPS

Joint Protection System

JPTF

Joint Parachute Test Facility, El Centro, Calif.

JRA-5C Aircraft

Vigilante Aircraft or RA-5C Aircraft or A3J Aircraft
(North Amer. Aviat.)

JSC

NASA Lyndon B. Johnson Space Center
(Formerly Manned Spacecraft Center)

JSEP

Joint Services Electronics Program

K

KABLE

Ka-Band Link Experiment

KACE

Ka-band Communication Experiment

KANDIDATS

Kansas Digital Image Data System

KAO

Kuipper Airborne Observatory

KASC

Knowledge Availability Systems Center (U. of Pittsburgh)

K-band

(Band of radio frequencies extending from 10,900 to 36,000 megahertz - 2.75 to 0.834 cm)

KC

(Fracture Toughness - metals)

KEW

Kinetic Energy Weapon

KIAS

Knots Indicated Air Speed

KKV

Kinetic Kill Vehicle

KNMI

Royal Netherlands Meteorological Institute

KPNO

Kitt Peak National Observatory

KREEP

Potassium, Rare-Earth Elements and Phosphorus
(Moon Rocks & Soil)

KSC

NASA John F. Kennedy Space Center

KWOT

Kilometer-Wave Orbiting Telescope

L

L3

Latitude/Longitude Locator

LACATE

Lower Atmospheric Composition and Temperature Experiment (NASA)

LACE

1. Liquid Air Cycle Engine
2. Lunar Atmospheric Composition Experiment
(also known as the LMS)

LACIE

Large Area Crop Inventory Experiment (NASA)

LAGEOS

Laser Geodynamic Satellite (NASA)

LAHF

Linear Acousto-optic Heterodyne Frequency-plane Filters

LAI

Leaf Area Index

LAMMA

Laser Microprobe Mass Analyzer

LAMMR

Large Aperture Multifrequency Microwave Radiometer

LAMPRE Program

Los Alamos Molten Plutonium Reactor

LAMPS

1. Limited Area Mesoscale Prediction System
2. Light Airborne Multipurpose System (NAVY)

LAN

Local Area Network

Landsat

Land Remote-Sensing Satellite

LAP
Launch Assembly Plan

LAPH
Lithium Aluminum Pentahydride

LaRC
Langley Research Center

LARGOS
Laser-Activated Reflecting Geodetic Optical Satellite

LARS
Lower Atmosphere Research Satellite

LAS
Large Astronomical Satellite (ESRO satellite)

LASA

1. Large Aperture Seismic Array
2. Large Aperture Solar Array
3. Laser Atmospheric Sounder and Altimeter

LASARS
Low probability of intercept Antijam Secure Airborne Radio System

LASE
Lidar Atmospheric Sensing Experiment

laser
Light Amplification by Stimulated Emission of Radiation

LASL
Los Alamos Scientific Lab., N. Mex.

LASSO
Laser Synchronization from Stationary Orbit

LAST
Large Aperture Scanning Telescope

LASV
Low Altitude Supersonic Vehicle
(Formerly SLAM)

LAW

Light Antitank Weapon

LAWRS

Limited Aviation Weather Reporting Station

LAWS

1. Laser Atmospheric Wind Sounder
2. Low-Altitude Warning System

LBG

Low BTU Gas

LBNP

Lower Body Negative Pressure Device

LCA

Load Controller Assembly (Space Shuttle)

LCAO

1. Linear Combination of Atomic Orbitals
2. Limited Configuration Atomic Orbital

LCC

1. Launch Control Center (Space Shuttle)
2. Life Cycle Costs

LCD

Liquid Crystal Display

LCELSS

Lunar-Base Controlled Ecological Life Support System

LCF

Low Cycle Fatigue

LCP

Left Circular Polarization

LCRE

Lithium Cooled Reactor Experiment

LCTS

Laser Communication Test Systems

L/D
Lift/Drag Ratio

LD50
Lethal Dose of Ionizing Radiation for 50% of the Population

LDBF
Long Duration Balloon Flight

LDCE
Limited Duration Space Environment Candidate Materials Exposure

LDEF
Long Duration Exposure Facility

LDR
Large Deployable Reflector

LEAF
Low Energy Absorption Forum

LEAM
Lunar Ejecta and Meteorites Experiment

LEAR
Low Energy Antiproton Ring

LEBU
Large Eddy Break Up (turbulence)

LEC
Liquid Encapsulated Czochralski (Crystal Growth Method)

LED
Light-Emitting Diode

LEED
Low Energy Electron Diffraction

LEG
Liquefied Energy Gases
(Refers to both liquefied natural gas and liquefied petroleum gas)

LEM
Lunar Excursion Module

LEMS
1. Low Energy Molecular Scattering
2. Linear Econometric Modeling System

LEMU
Lunar Extravehicular Mobility Unit

LEO
Low Earth Orbit

LEP
Laboratory for Extraterrestrial Physics

LEQ
Equivalent Continuous Noise Level (4 db exchange rate)

LeRC
Lewis Research Center

LES
Lincoln Experimental Satellite

LEST
1. Large European Solar Telescope (Earth Survey)
2. Low Energy Speech Transmission

LET
Linear Energy Transfer

LETF
Launch Equipment Test Facility

LF
Low Frequency

LFC
1. Laminar Flow Control
2. Large Format Camera

LFMR
Low-Frequency Microwave Radiometer

LGO

1. Low Gravity Orbit
2. Lunar Geoscience Observer

LGS

Lunar Geodetic Scout

LHX

(Designation for a family of Light Military Helicopters)

LIBORS

Laser Ionization Based on Resonance Saturation

LID

Light Intensity Devices

LIDAR

Light Detection and Ranging Device (Optical Radar)

LIMEX

Labrador Ice Margin Experiment

LIMS

Limb Infrared Monitor of the Stratosphere

LIRTS

Large Infrared Telescope on Spacelab

LIS

Lightning Imaging Sensor

LISM

Local Interstellar Medium

LITE

Lidar In-Space Technology Experiment

LIXISCOPE

Low Intensity X-ray Imaging Scope
(Hand held device for real-time scanning)

LLMM

Low Level Meteorological Model

LLR
Lunar Laser Ranging

LLWAS
Low Level Wind Shear Alert System

LM
Lunar Module

LMCR
Liquid Metal Cooled Reactor

L/MF
Low/Medium Frequency

LMFBR
Liquid Metal Fast Breeder Reactor

LMN
Lithium Meta Niobate

LMP
Lunar Module Pilot

LMS
Lunar Mass Spectrometer (also known as LACE)

LMSC
Lockheed Missiles and Space Company

LMSS

1. Land Mobile Satellite Service
2. Lunar Mapping and Survey System

LMTO
Linear Muffin-Tin Orbitals (Atomic physics)

LNPE
Lunar Neutron Probe Experiment

LO
Local Oscillator

LOC
Large Optical Cavities

LOCA
Loss Of Coolant Accident
(An incident involving the loss of primary coolant in a nuclear reactor)

LOCROSS
(Logic of Computers Operating System for the PDP-)

LOD
Length of Day

LOE
Level of Effort

LOFT
Loss-Of-Fluid Test

LOFTI
Low Frequency Transionospheric Satellite

LOH
Light Observation Helicopter (OH-6)

LOLA
Lunar Observer Laser Altimeter

LOP
Lunar Orbital Prospector

LOR
Lunar Orbital Rendezvous

LORO
Lobe On Receive Only

LORAN
Long Range Navigation

LORV
Low Observable Reentry Vehicle

LOS

1. Line of Sight
2. Loss of Signal

LOTUS

Long Term Upper Ocean Story

LOTS

Logistics Over The Shore Carrier

LOVA

Low Vulnerability Gun Propellants

LOVE

Lunar Observations Verifier Editor

LOX

Liquid Oxygen

LP

Load Package

LPCVD

Low Pressure Chemical Vapor Deposition

LPE

Liquid Phase Epitaxy

LPS

Launch Processing System (Space Shuttle)

LPTR

Livermore Pool Type Reactor

LQG

Linear Quadratic Gaussian

LQG/LTR

Linear Quadratic Gaussian/Loop Transfer Recovery

LQR

Linear Quadratic Regulator

LRB
Liquid Rocket Booster

LR-FAX
Low Resolution Facsimile

LRD
Litter Recovery Device

LRL
Lunar Receiving Laboratory, NASA Lyndon B. Johnson Space Center

LRM

1. Land Resources Management
2. Lunar Reconnaissance Module
3. Lunar Resource Mapper

LRR
Launch Readiness Review

LRU
Line Replaceable Unit (Space Shuttle)

LRV
Lunar Roving Vehicle

LSA

1. Large Space Antenna
2. Limited Space-charge Accumulation

LSBR
Liquid Strand Burning Rate

LSCRE
Lunar Surface Cosmic Ray Experiment

LSD
Liquid Scintillation Detector

LSD WAVES
Laser Supported Detonation Waves

LSG
Lunar Surface Gravimeter (Apollo/NASA)

LSI
1. Large Scale Integration
2. Lunar Science Institute

LSL
Life-Sciences Laboratory

LSM
Line-Spring Model

LSPE
Lunar Seismic Profiling Experiment

LSPET
Lunar Sample Preliminary Examination Team

LSRF
Astrophysics Magnetic Spectrometer Facility

LSS
1. Lunar Soil Stimulant
2. Life Support Subsystem

LST
1. Large Space Telescope
2. Large Scale Turbulence

LTA
1. Lighter-Than-Air aircraft
2. LEM Test Article

LTE
Local Thermodynamic Equilibrium

LTSA
Linearly Tapered Slot Antennas

LTT
Lunar Transit Telescope

LUNATRON
Electromagnetic Spacecraft Rail Launcher

LU-ADI

Lower/Upper block diagonal - Alternating Direction Implicit

LUF

Lowest Useable Frequency

LURU

Lunar Replacement Unit

LUT

1. Launcher Umbilical Tower
2. Local User (Terminal)

LVLH

Local Vertical, Local Horizontal

LWACC

Light Weight Aft Cargo Carrier

LWIR

Long Wavelength Infrared

LWR

Long Wavelength Redundant Camera (on IUE)

M

MA

Military Academy, West Point, N. Y.

MA-1

Mercury Flight

MAB

Material Advisory Board, National Research Council, Washington, D.C.

MACE

Middeck Active Control Experiment

MACHO

Massive Compact Halo Object

MACS

Modular Digital Altitude Control System

MACSAT

Multi-Access Communication Satellite

MADS

Modular Auxiliary Data System (Space Shuttle)

MAF

Michoud Assembly Facility (NASA)

MAGIC

Machine for Automatic Graphics Interface to a Computer

MAGSAT

Magnetic Field Satellite (AEM-C)

MAIDS

Multipurpose Automatic Inspection & Diagnostic System (Army)

MAKS

Medical Aid Kit/Station

MALS

Medium Intensity Approach Light System

MAM
Mars Aeronomy Mission

MAMA
1. Multi-Anode Microchannel Array

MAP
1. Michigan Airglow Payload
2. Missed Approach Point

MAP/WINE
Middle Atmosphere Program/Winter in Northern Europe

MAPS
Measurement of Air Pollution from Satellite (Shuttle payload)

MAR
Middeck Accommodations Rack

MARA
Multimode Airborne Radar Altimeter

MARS
1. Manned Aerodynamic Reusable Spaceship
2. Mobile Atlantic Range Station

MARSEN
Maritime Remote Sensing (1981)

MART
Math modeling And Reliability Transducers
(for sonar arrays)

MAS
1. Mechanical Actuation System (Space Shuttle)
2. Millimeter-wave Atmosphere Sounder

MASC
Mission and Safety Critical

MASER
Microwave Amplification by Stimulated Emission of Radiation

MAST

1. Magnetic Annular Shock Tube
2. Missile Automatic Supply Technique

MATCON

Microwave Aerospace Terminal Control

MATE

Materials for Advanced Turbine Engines

MATTS

Multiple Airborne Target Trajectory System

MAW

Mission Adaptive Wing

MAWP

Missed-Approach Waypoint

Max-91

(Coordinated Solar Research Program)

MAZAL

(Modification of Polytaz)

MBB

Messerschmitt-Boelkow-Blohm

MBE

Molecular Beam Epitaxy

MBO

Management by Objectives

MBS

1. Megabits per Second
2. Microbial Bioreactor Systems

MCA

1. Main Combustion Assembly
2. Minimum Crossing Altitude
3. Motor Control Assembly (Space Shuttle)

MCC

1. Midcourse Correction
2. Mission Control Center

MCEB

Marine Corps Equipment Board, Quantico, Va.

MCLFDC

Marine Corps Landing Force Development Center, Quantico, Va.

MCP/PMT

Microchannel Plate/Photomultiplier Tube

MCPF

Modified Coupled Pair Functional
(quantum chemistry)

MCR

Military Compact Reactor

MCSA

Multichannel Spectrum Analyzer (MCSA)

MCSCF

Multiconfiguration Self Consistent Field (AF)

MCSST

MultiChannel Sea Surface Temperature

MCTV

Man-Carrying Test Vehicle

MD

Middeck

MDA

Minimum Descent Altitude

MDF

Mammalian Development Facility

MDIS

Modeling, Data, and Information System

MDM

Multiplexer/Demultiplexer

MEA

1. Metal Edge Amplifier
2. Minimum En Route (IFR) Altitude
3. Monoethanolamine

MEB

Main Electronic Box

MEC

Main Engine Controller (Space Shuttle)

MECO

Main Engine Cutoff

MED

Mobile Energy Depot

MEED

Microbial Ecology Evaluation Device

MEG

Magnetoencephalogram

MEL-A

Marine Engineering Lab., Annapolis, Md.

MEL-S

Military Electronics Lab. (Sweden)

MELTER

Mesosphere Lower Thermosphere Explorer

MEM

1. Mars Excursion Module
2. Maximum Entropy Method

MEMBRANE

Permeable Membrane for Plant Nutrient Delivery System

MEO

Medium Earth Orbit

MERLIN
Multi-Element Radio Link Interferometer Network

MESA
1. Minature Electrostatic Accelerometer
2. Modularized Equipment Stowage Assembly (APOLLO/NASA)

MESFET
Metal-Semiconductor Field Effect Transistor

MESS
Mesoscale and Severe Storms Computer System

MESUR
Mars Environmental Survey

MET
Mission Elapsed Time (Space Shuttle)

METEOSAT
(Meteorological satellite For Europe-European counterpart to GOES)

METS
Modular Equipment Transporter System

METSAT
Meteorological Satellite

MFE
Magnetic Field Explorer

MFR
Manipulator Foot Restraint

MFT
Magnetic Field Explorer

MFTF
Mirror Fusion Test Facility

MGCO
Mars Geoscience/Climatology Orbiter

MGM
Mechanics of Grandular Materials

MGS
Missile Guidance Set.

MGSS
Manned Geosynchronous Spacecraft Servicer

MHD
Magnetohydrodynamic(s)

MHOS
Reciprocal OHMS

MHS
Microwave Humidity Sounder

MHW
Multihundred Watt (usually referring to generators)

MHz
Megahertz (Mc/S)

MIC
Microwave Integrated Circuits

MIG welding
Molybdenum Inert Gas Welding

MIL-STD
Military Standard

MIMD
Multiple Instruction/Multiple Data

MIMO
Multiple-Input Multiple-Output

MIMOSA
Mission Modes and Systems Analysis

MIMR
Multifrequency Imaging Microwave Radiometer

MINIVAR
Minimum Variance Orbit Determination

MINS
Mare Island Naval Shipyard, Vallejo, Calif.

MINUS
Modular Integrated Utility System

MIPL
Multi-Mission Image Processing Laboratory

MIPS
Millions of Instructions per Second

MIRA
Multifunction Inertial Reference Assembly

MIRL
Medium Intensity Runway Lights

MIROS
Modulation Inducing Retrodirective Optical System

MIRS
Mid-Infrared Spectrometer

MIS
Metal Insulator Semiconductor

MIS-I
Drug Microencapsulation in Microgravity

MISR
Multi-Angle Imaging Spectro-Radiometer

MIST
MIUS Integration and Subsystems Test

MINUS
Modular Integrated Utility Systems

MITO
Minimum Interval Takeoff

MJSC
Multijunction, Multiband-gap Solar Cells

MLA
Multispectral Linear Array

MLE
Maximum Likelihood Estimation
Mesoscale Lightning Experiment

MLEP
Manned Lunar Exploration Program

MLG
Main Landing Gear (Space Shuttle)

MLI
Multilayer Insulation

MLR
Monodisperse Latex Reactor

MLS
1. Microwave Landing System
2. Microwave Limb Sounder
3. Multifrequency Laser Sounding

MM
Major Mode (Space Shuttle)

MM2
Mariner Mark 2

MM4
Mesoscale Model 4

MMA
Methyl Methacrylate

MMAA
Man/Machine Assembly Analysis
(Methods for orbital assembly of large space structures)

MMC
MicroMeteoroid Capsule (payload -- Saturn Launch Vehicle)

MMI
Man Machine Interface

MMIC
Monolithic Microwave Integrated Circuits

MMLS
Material and Maintenance Logistics System

MMR
Modular Multiband Radiometer (LANDSAT)
Multimission Receiver (DSN)

MMR
Multimode Radiometer

MMS
Multimission Modular Spacecraft

MMU
1. Manned Maneuvering Unit
2. Mass Memory Unit (Space Shuttle)

MNET
Mission and data directorate, NETwork

MNOS
Metal Nitride Oxide Semiconductor

MO
1. Mars Observer (Mission)
2. Molecular Orbital

MO&DA
Mission Operations and Data Analysis

MOA
Military Operations Area

MOA/TIL
Ministry of Aviation (Gt. Brit.)

MOBLAS
Mobile Laser

MOCS
Multichannel Ocean Color Sensor

MODAP
Modified Apollo Logistics Spacecraft

MODE
Mid-Deck 0-Gravity Dynamics Experiment

MODIS-N
Moderate-Resolution Imaging Spectrometer-Nadir

MODIS-T
Moderate-Resolution Imaging Spectrometer
(Earth Observing System, EOS)

MOD/UM
Modulated/Unmodulated

MOE
Measure of Effectiveness

MOF
1. Magneto-Optical Filter
2. Maximum Observed Frequency

MOL
Manned Orbital Laboratory

MOLAB
Mobile Laboratory (Lunar)

MOM
Mars Observer Mission

MOMV
Mini Orbital Maneuvering Vehicle

MONOS
Metal Oxide Nitride Oxide Semiconductor

MONSEF

MONitoring the Sun-Earth Environment

MOP

1. Microwave Observing Project
2. Multiple Output Program

MOPITT

Measurements of Pollution in the Troposphere

MOPS

Man Operated Propulsion System

MOR

1. Mid-Ocean Range
2. Mission Operations Room
3. Modulus Of Rupture

MORL

Manned Orbital Research Laboratory

MOS

1. Marine Observation Satellite
2. Metal Oxide Semiconductors

MOSFET

Metal Oxide Semiconductor Field Effect Transistor

MOSS

Manned Orbital Space Station

MOTS

Minitrack Optical Tracking System

MOTV

Manned Orbital Transfer Unit

MOU

Memorandum of Understanding

MOWG

Management Operations Working Group

MPAC
Multipurpose Application Console

MPC
1. Maximum Permissible Concentration
2. Monitor Proportional Counter (HEAO-2)

MPD
Magnetoplasmadynamics

MPEC
Multi-Purpose Experiment Canister

MPESS
Mission Peculiar Equipment Support Structure

MPL
Minimum Power Level (Space Shuttle)

MPM
Manipulator Positioning Mechanism (Space Shuttle)

MPP
Massively Parallel Processor

MPPF
Modal Positive Position Feedback

MPRE
Minimum Pure Radium Equivalent

MPS
Main Propulsion System (Space Shuttle)

MPSE
Mexican Payload Specialist Experiment

MR-2
Mercury Flight

MRA
1. Mean Reference Axis
2. Minimum Reception Altitude

MRB
Material Review Board

MRC
Meteorological Research Committee, Air Ministry, (Gt. Brit.)

MRCI
Multireference Configuration Interaction
(Quantum Chemistry)

MRDC
Military Requirement and Development Committee
(now DARCOM; previously AMC)

MRI
Magnetic Resonance Images

MRIR
Medium Resolution Infrared Radiometer

MRMS
Mobile Remote Manipulator System

MRN
Meteorological Rocket Network

MRSDCI
Multireference Singles and Doubles Configuration Interaction
(Quantum Chemistry)

MRSR

1. Mars Rover Sample Return (Mission)
2. Multi-Role Survivable Radar

MR WISARD
Multi-Record Wave Investigator for Sine and Random Data

MS

1. Man System
2. Mission Specialist (Space Shuttle)

MSA
Microgravity Science and Applications (program)

MSACP
Microgravity Science and Applications Cooperative Program

MSAD
Microgravity Science and Applications Division

MSAS
Microwave Signature Acquisition System

MSAT-X
Mobile Satellite Experiment

MSAW
Minimum Safe Altitude Warning

MSB
Most Significant Bit

MSBLS
Microwave Scanning Beam Landing System (Space Shuttle)

MSC
1. Mobile Servicing Centre (Canadian)
2. Manned Spacecraft Center

MSF
Manned Space Flight Program

MSFC
Marshall Space Flight Center, Huntsville, Ala.

MSFN
Manned Space Flight Network

MSH
Magnetoelastic Static Hysteresis

MSI
Medium Scale Integration

MSIS
Man/Systems Integration Standard

MSL

1. Materials Science Laboratory
2. Mean Sea Level

MSRE

Molten-Salt Reactor

MSS

1. Materials Science in Space
2. Mechanical and Structural Subsystems
3. Mobile-Satellite Service
4. Mobile Servicing System
5. Modular Space Station
6. Multispectral Scanner

MST

Mesosphere Stratosphere Troposphere

MSTI

Miniature Seeker Technology Integration

MSU

Microwave Sounding Unit

MTBF

Mean Time Between Failure

MTBR

Mean Time Between Repairs

MTC

Man-Tended Capability

MTF

1. Matrix Test Facility (for HTAH for magnetohydrodynamics power plants)
2. Mississippi Test Facility
3. Modulator Transfer Function

MTFF

Man Tended Free Flyer

MTI

Moving Target Indicator Radar

MTIS
Mission Test Imaging System

MTOS
Metal Thick Oxide Semiconductor

MTP
Microwave Temperature Profiler

MTR
1. Materials Testing Reactor
2. Mean Time to Restore (USAF)
3. Military Training Route

MTT
Multiple Target Tracker

MTTR
Mean Time to Repair

MTTS
Mean Time to Service

MTU
Master Timing Unit (Space Shuttle)

MUBIS
Multiple Beam Interval Scanner

MUF
Maximum Usable Frequency

MUMP
Marshall University of Michigan Probes

MUSAP A
Multisatellite Augmentation Program-A

MUSE
Monitor Ultraviolet Solar Energy

MUX
Multiplexer

MVA
Minimum Vectoring Altitude

MVGVT
Mated Vertical Ground Vibration Tests (of space shuttle)

MVM-73
Mariner/Venus/Mercury Fly-by-Mission

MVS
Multiple Virtual System

MWS
Microwave Wind Scatterometer

MY
1. Million Years
2. Millions of Years

N

n

Neutron

N

Newton

N/A

Not Applicable

NAA

Neutron Activation Analysis

NACA

National Advisory Committee for Aeronautics

NADC-AC

Aeronautical Computer Lab., Naval Air Development Center, Johnsville, Pa.

NADC-AR

Aviation Armament Lab., Naval Air Development Center, Johnsville, Pa.

NADC-AI

Aeronautical Instruments Lab., Naval Air Development Center, Johnsville, Pa.

NADC-AW

Anti-Submarine Warfare Lab., Naval Air Development Center, Johnsville, Pa.

NAD-CI

Naval Ammunition Depot, Crane, Ind.

NADC-ED

Engineering Development Lab., Naval Air Development Center, Johnsville, Pa.

NADC-EL

Aeronautical Electronic and Electrical Lab., Naval Air Development Center, Johnsville, Pa.

NADC-MA

Aviation Medical Acceleration Lab., Naval Air Development Center, Johnsville, Pa.

NAE

National Academy of Engineering

NAEC

1. National Aeronautical Establishment (Canada)
2. Naval Air Engineering Center, Philadelphia, Pa.

NAEC-ACEL

Aerospace Crew Equipment Lab., Naval Air Engineering Center, Philadelphia, Pa.

NAEC-AEL

Aeronautical Engine Lab., Naval Air Engineering Center, Philadelphia, Pa.

NAEC-AML

Aeronautical Materials Lab., Naval Air Engineering Center, Philadelphia, Pa.

NAEC-ASL

Aeronautical Structures Lab., Naval Air Engineering Center, Philadelphia, Pa.

NAEL-ENG

Air Engineering Lab., Naval Air Engineering Center, Philadelphia, Pa.

NAF

Naval Avionics Facility, Indianapolis, Ind.

NAH

Nearfield Acoustic Holography

NAIC

National Aeronomy and Ionosphere Center

NAIF

Navigation Ancillary Information Facility

NAMRU-2

Naval Medical Research Unit No. 2, Taipei, Taiwan

NAPALM

National ADP Program for Army Material Command Logistics Management

NAR

1. National Aerospace Standards
2. North American Route
3. Numerical Analysis Research

NARTS

Naval Air Rocket Test Station, Lake Denmark, Dover, N.J.

NAS

1. National Academy of Sciences
2. National Airspace System

NASA

National Aeronautics and Space Administration, Washington, D.C.

NASARR

North American Search and Ranging Radar

NASCAP

NASA Charging Analyzer Program

NASCOM

1. Communications Network (NASA)
World Wide
2. Naval Air Systems Command

NASDA

National Space Development Agency (Japan)

NASIS

NASA Aerospace Safety Information System

NASL

Naval Applied Science Lab., Brooklyn, N. Y.

NASP

National Aerospace Plane

NAS Stage A

National Airspace System--"Stage A" automation

NASTRAN

NASA Structural Analysis

NATC

Naval Air Test Center, Patuxent River, Md.

NATO

North Atlantic Treaty Organization

NATTS-ATL

Aeronautical Turbine Lab., Naval Air Turbine Test Station, Trenton, N.J.

NAV

Navigation

NAVDAC

Navigation Data Ps Simulation

NAVDOCKS

Bureau of Yards and Docks, Washington, D.C. (Obsolete?)

NAVMED

NAVY Bureau of Medicine and Surgery, Washington, D.C.

NAVPERS

Bureau of Naval Personnel, Washington, D.C.

NAVSEA

Naval Avionics Support Equipment Appraisal

NAVSPASUR

Naval Space Surveillance System, Dahlgren, Va.

NAVWEP

Bureau of Naval Weapons, Navy Dept., Washington, D.C.

NB

Neutral Buoyancy

NBR

Acrylonitrile Butadiene Rubber

NBS

1. National Bureau of Standards, Washington, D.C.
(Now, National Institute for Standards and Technology - NIST)
2. Neutral Buoyancy Simulation

NBTL

Naval Boiler and Turbine Lab., Philadelphia, Pa.

NC

1. Convective Heat Transfer Coefficient
2. Nitrocellulose
3. Noise Criteria (curve)

NCAR

National Center for Atmospheric Research

NCDS

NASA Climate Data System

NCEL

Naval Civil Engineering Lab., Port Hueneme, California

NCP

Network Control Program

NCRE

Naval Construction Research Establishment, (Gt. Brit.)

NCTSI

National Council of Technical Service Industries

NCX

Nucleon Charge Exchange

NDB

Non-Directional Beacon (Radio)

NDBO

NOAA Data Buoy Office (National Oceanic and Atmospheric Admin.)

NDC

National Defense Council (Netherlands)

NDE

1. Nondestructive Evaluation
2. Nondestructive Examination

NDI

Nondestructive Inspection

NDOSC

Network for the Detection of Stratospheric Change

NDPF
NASA Data Processing Facility

NDRE
Norwegian Defense Research Establishment

NDSS
NASA Document Storage System

NDT
1. Nil Ductility Transition
2. Nondestructive Test
3. Normal Dealy Time

NDVI
Normalized Difference Vegetation Index

NEAR
Near Earth Asteroid Rendezvous

NEB
North Equatorial Belt

NECAP
NASA Energy Cost Analysis (Computer) Program

NEDU-NWP
Navy Experimental Diving Unit, Naval Weapons Plant, Washington, D.C.

NEEP
Nuclear Electronic Effects Program

NEMS
Nimbus-E Microwave Spectrometer

NERVA
Nuclear Engine for Rocket Vehicle Applications

NEPRF
Naval Environmental Prediction Research Facility

NESDIS
National Environmental Satellite, Data, and Information Service

NESS
National Environmental Satellite Service

NEW MOONS
NASA Evaluation with Models Of Optimized Nuclear Spacecraft

NEWMAST
NASA Educational Workshops for Mathematics and Science Teachers

NEXRAD
NEXt generation weather RADar

NEXT
Near End Crosstalk

NG
Nitroglycerine

NGSP
National Geodetic Satellite Program

NGT
NASA Ground Terminal

NIFC
Northern Iceland Finance Corporation

NIMPHE
Hydrazine Engine

NIMS
1. Near Infrared Mapping Spectrometer
2. Nuclear Instrumentation Modular System

NIR
Non-Ionizing Radiation

NIST
National Institute for Standards and Technology
(Previously, National Bureau of Standards - NBS)

NLF
Natural Laminar Flow

NLG
Nose Landing Gear (Space Shuttle)

nm
Nanometer

NMC
National Meteorological Center

NMC
Naval Missile Center, Point Mugu, Calif.

NMDL
Navy Mine Defense Lab., Panama City, Fla.

NMFRL
Naval Medical Field Research Lab., Camp Lejeune, N.C.

NMFS
National Marine Fisheries Service

NMH
Nuclear Microprobe for Hydrogen

NMI
NASA Management Instructions

NMOS
Used Interchangeably for MNOS
(metal-nitride-oxide-semiconductors)

NMNRU
Navy Medical Neuropsychiatric Research Unit, San Diego, Calif.

NMRI
Naval Medical Research Inst., Bethesda, Md.

NMRL
Naval Medical Research Lab., New London, Conn.

NNS
Norfolk Naval Shipyard, Portsmouth, Va.

NOAA
National Oceanic and Atmospheric Administration

NOAA 2
ITOS-D

NOAA 3
ITOS-F

NOAO
National Optical Astronomy Observatories

NODS
NASA Ocean Data System

NOE
Nap-of-the-Earth

NOL
Naval Ordnance Lab., White Oak, Md.

NOLC
Naval Ordnance Lab., Corona, Calif.

NOMSS
National Operational Meteorological Satellite System

NOO
Naval Oceanographic Office, Washington, D.C. (Inactive)

NORAD
North American Air Defense

NORPAX
North Pacific Experiment

NOS

1. National Ocean Service
2. National Ocean Survey
(Previously-Coast & Geodetic Survey, now NOAA)
3. Network Operation System

NOSL
Night/Day Optical Survey of Thunderstorm Lightning

NOSS

1. National Oceanic Satellite System
2. Navy Ocean Sensing System

NOTAM

Notice to Airmen

NOTS

Naval Ordnance Test Station, China Lake, Calif.

NOVA

(Advanced Navy Navigation Satellite)

NM

Nitronium Perchlorate

NPIC

Naval Photographic Interpretation Center, Washington, D.C.

NPL

National Physical Lab. (Gt. Brit.).

NPO

Pasadena Office, NASA

NPP

1. Naval Propellant Plant, Indian Head, Md.
2. Net Primary Production

NPSN

NAS (Numerical Aerodynamic Simulation) Processing System Network

NPSS

NASA Packet Switching System

NR

North American Rockwell

NRC

National Research Council, Washington, D.C.

NRC-MAC

Mine Advisory Committee, National Research Council, Washington, D.C.

NRCC-ME
National Research Council of Canada Div. of Mechanical Engineering

NRCC/REE
Radio and Electrical Engineering Div., National Research Council of Canada

NRDL
Naval Radiological Defense Lab., San Francisco, Calif.

NRE
Naval Research Establishment (Canada)

NREN
National Research and Education Network

NRKM
Non-Radar Keyboard Multiplexer

NRL
Naval Research Lab., Washington, D. C.

NRL-C
National Research Labs. (Ottawa, Canada)

NRM
Natural Remanence Magnetization

NROSS
Navy Remote Ocean Sensing System

NRTS
Nuclear Reactor Test Site

NSAM
Naval School of Aviation Medicine, Pensacola, Fla.

NSB
Naval Submarine Base, New London, Conn.

NSCAT
NASA Scatterometer

NSDSSO
NASA Science Data Systems Standards Office

NSESCC
NASA Space and Earth Sciences Computing Center

NSF
National Science Foundation, Washington, D.C.

NSI
NASA Standard Initiator

NSIA
National Security Industrial Association

NSIDC
National Snow and Ice Data Center

NSMO
Nastran Systems Management Office

NSN
NASA Space Network

NSOM
Near-field Scanning Optical Microscopy

NSP
Network Signal Processor (Space Shuttle)

NASTRAN
NASA Structural Analysis

NSRDS
National Standard Reference Data System

NSSDC
National Space Science Data Center

NST
Navigation Technology Satellite

NSTA
National Science Teachers Association

NSTS
National Space Transportation System

NTDC
Naval Training Device Center, Port Washington, N.Y.

NTE
NASA Technology Experiments

NTO
Nitrogen Tetroxide

NTSB
National Transportation Safety Board

NTU
Nephelometric Turbidity Units

NTZ
No Transgression Zone

NUOS
Naval Underwater Ordnance Station, Newport, R. I.

NURE
National Uranium Research Evaluation (program)

NUSCAT
New Airborne Scatterometer

NWEF
Naval Weapons Evaluation Facility, Albuquerque, N. Mex.

NWL
Naval Weapons Lab., Dahlgren, Va.

NWPW
Naval Weapons Plant, Washington, D.C.

NWRF
Naval Weather Research Facility, Norfolk, Va.

NWS

1. National Weather Service
2. Nose-Wheel Steering (Space Shuttle)

NYNS-ML

New York Naval Shipyard Material Lab, Brooklyn

O

OA

1. NASA Office of the Administrator
2. Office of Applications

OACSI-DA

Office of the Assistant Chief of Staff for Intelligence, Dept. of the Army, Washington, D.C.

OAO

Orbiting Astronomical Observatory

OAO 3

Copernicus Observatory

OAOAF

Operations Analysis Office, Air Force, Washington, D.C.

OAOAFLC

Operations Analysis Office, Air Force Logistics Command, Wright-Patterson Air Force Base, Ohio.

OARE

Orbital Acceleration Research Experiment

OART

Office of Advanced Research and Technology

OASIS

OEX Autonomous Supporting Instrumentation System

OASPL

Overall Sound Pressure Level

OAST

NASA Office of Aeronautics and Space Technology

OAST-FLYER

Office of Aeronautics and Space Technology-Flyer

OAST-x

Office of Aeronautics and Space Technology-1

OB
Octave Band

OBR
Outer Boot Ring

OBS
Operational Bioinstrumentation System (Space Shuttle)

OCA
Oceanic Control Areas

OCC
Operations Control Center

OCI
Ocean Color Imager

OCP
NASA Office of Commercial Programs

OCPP
Orbiter Cloud Photopolarimeter (Pioneer)

OCR
Optical Character Recognition

OCTW
Optical Communication Thru the Shuttle Window Flight Demonstration

ODC
Other Data Center

ODE
Ordinary Differential Equation

ODSRS
Orbiting Deep Space Relay Station

OE
NASA Office of Exploration

OEEO
Outboard Engine Cutoff

OEF
Operations Evaluation Group, Office of Naval Operations

OEX
Orbiter Experiments

OFHC
Oxygen-Free, High-Conductivity (Copper)

OFT
1. Orbital Flight Test
2. Orbiter Flight Test

OFTT
Operational Flight and Tactics Trainer

OGO
Orbiting Geophysical Observatory

OH
(Hydroxyl radical)

OI
Operational Instrumentation (Space Shuttle)

OIATU
Office of Industry Affairs and Technology Utilization

OIM
Oxygen Interaction with Materials

OLS
Optical Line Scanner

OMB
Office of Management and Budget

OMS
Orbital Maneuvering System

OMSF
Office of Manned Space Flight

OMV
Orbital Maneuvering Vehicle

ONI
Office of Naval Intelligence, Washington, D.C.

ONR
Office of Naval Research, Washington, D.C.

ONRL
Office of Naval Research, London

OOE
Out-of-Elliptic

OOS
Orbit-to-Orbit Stage

OPA
NASA Office of Public Affairs

OPE
One Pion Exchange

OPEN
Origins of Plasmas in the Earth's Neighborhood

OPEP
Orbit Plane Experiment Package
(for use on OGO)

OPIS
Operational Satellite Improvement Program

OPLE
Omega Position Location Equipment

OPM
1. Optical Properites Monitor
2. Office of Personnel Management (Previously - Civil Service
Commission)

OPUS
Organization of Persistent Upwelling

OR

1. Observed Ratio
2. Ordinary Proton (Event)

ORA

Office of Research Analyses, Holloman Air Force Base, N. Mex.

ORBI

Orbiting Radio Bearer Ionospheric Satellite

ORDL-EC

Ohio River Div. Labs., Engineer Corps, Cincinnati

ORFEUS

Orbiting and Retrievable Far and Extreme Ultraviolet Spectrometer

ORGEL

Organic Cooled, Heavy Water Moderated Reactor (Euratom)

ORIC

Oak Ridge Isochronous Cyclotron

ORION

Operational Radio Interferometry Observing Network

ORNL

Oak Ridge National Laboratory

ORS

Orbiter Refueling System

ORU

Orbital Replacement Unit

OSC

NASA Office of Space Communications

OSCAR

Orbiting Satellite Carrying Amateur Radio

OSE

Operational Support Equipment

OSF
NASA Office of Space Flight

OSI
Open System Interconnection

OSL
Orbiting Solar Laboratory

OSO
Orbiting Solar Observatory

OSS
1. Office of Space Science (NASA)
2. Office of Space Station (NASA)

OSS-1
Office of Space Science 1

OSSA
Office of Space Science and Applications

OSSD
NASA Office of Space Systems Development

OSTA
NASA Office of Space and Terrestrial Applications (Currently OAST)

OSWD
Office of Special Weapons Developments, Fort Bliss, Tex.

OTDA
Office of Tracking and Data Acquisition

OTEF
Operational Test and Evaluation Force, Norfolk, Va.

OTF
1. Optical Transfer Function
2. Optimum Traffic Frequency

OPT
Office of Telecommunications Policy

OTB
Orbiter Timing Buffer (Space Shuttle)

OTS
Orbit Transfer System

OTU
Office of Technology Utilization

OTV
Orbit Transfer Vehicle
(propulsive rocket or stage to supplant IUS and SSUS)

OVC
Optimized Valence Configuration (quantum chemistry)

OVNI
(French Acronym for UFO's)

OWL
One Way Landers

OWS
Orbiting Workshop

P

Proton

P

Pultrusion

P-CENT

Gravitropic Responses of Plant Seedlings

PA

Picatinny Arsenal, Dover, N.J.

P.A.C.M.

Pulse Amplitude Code Modulation

PACE

1. Physics and Chemistry Experiment in Space
2. Power Assisted Glove End Effector

PAD

1. Polar Auroral Dynamics
2. Propellant Actuated Devices
3. Pulsed Activation Doppler

PAET

Planetary Atmosphere Experiments Test

PAGEOS

Passive Geodetic Earth Orbiting Satellite

PAH

Polycyclic Aromatic Hydrocarbon

PAL

Pallet (Spacelab Pallet Structure)

PALAPA

(Synchronous satellite communication system for Indonesia)

PAM

1. Payload Assist Module
2. Payload Accommodation Manager
3. Peripheral Adapter Module
4. Pulse Amplitude Modulation

PAMIS

Processing And Manufacturing In Space

PAN chemicals

(Peroxy-Acetyl-Nitratol)

PANT

Proboscoid Ablative Nose Tips (Program)

PAR

Precision-Approach Radar

PARE

Physiological & Anatomical Rodent Experiment

PARESEV

Paraglider Research Vehicle 91, IA, II, etc.

PASS

1. Pressurized Air Starter System
2. Primary Avionics Software System (Space Shuttle)

PBAA

Polybutadiene Acrylic Acid (Copolymer)

PBAN

1. Polybutadiene Acrylonitrile (Copolymer)
2. PBI Polybenzimidazole

PBE

Pool Boiling Experiment

PBL

Planetary Boundary Layer

PBRE

Pebble Bed Reactor Experiment

PBW
Proportional Bandwidth

PBX
Polybutadiene Tetranitramine

P/C CLLS
Physical/Chemical Closed Loop Life Support

PCA

1. Polar Cap Absorption
2. Positive Control Area
3. Power Control Assembly (Space Shuttle)

PCAC

1. Partial Conserved Axial Currents
2. Partially Conserved Axial-Vector Current

PCD-BR
Plataformas de Coleta de Dados -- (Brazil Data Collection Platform)

PCG-II
Protein Crystal Growth-II

PCG-III
Protein Crystal Growth-III

PCGPROTO
Protein Crystal Growth Prototype

PCGU
Protein Crystal Growth Unit

PCM

1. Phase Change Material
2. Pulse Code Modulation

PCS

1. Pointing Control System
2. Pressure Control System (Space Shuttle)

PCTR
Physical Constants Testing Reactor

PCU

Power Control Unit

PCUA

Pressure Control Unit, ATLAS

PDLG

Pitman-Dunn Labs. Group, Frankford Arsenal, Philadelphia, Pa.

PDM

Pulse Duration Modulation

PDME

Precision Distance Measuring Equipment

PDMP

Project Data Management Plan

PDOP

Position Dilution of Precision

PDP Computer

(Tradename for a Packard-Bell digital computer system)

PDR

1. Preferential Departure Route
2. Preliminary Design Review

PDRS/PFTA

Payload Deployment and Retrieval System/Payload Flight Test Article

PDS

Planetary Data System

PDT

Pacific Daylight Time

PDU

Power Drive Unit (Space Shuttle)

PEGASUS

1. Pegasus Air-Breathing Launch Vehicle
2. Power Generating System for Use in Space

PEM
Proton Exchange Membrane

PEO
Polar Earth Orbit

PEP
Power Extension Package

PERT
*Program Evaluation and Review Technique

PESS
Programmable Escape System Sequencer

PET
Proton Electron Telescope

PETN
Pentaerythritol Tetranitrate

PETS
Proximity Effect Tunneling Spectroscopy

PFES
Portable Field Emission Spectrometer

PFG
Perfluoroguanidine

PFM
Pulse Frequency Modulation

PFMS
Planar Flow Melt Spinning

PFR
Portable Foot Restraint (Space Shuttle)

PGS
1. Primary Guidance Subsystem
2. Product Generation System

PGSOW
Precision Guided Stand Off Weapons

PHCF
Pituitary Growth Hormone Cell Function

PHS
Personal Hygiene Station (Space Shuttle)

PI
Principal Investigator

PIA
Particulate Impact Analyzer (Giotto)

PIC
Particle-In-Cell

PICAO
Provisional International Civil Aviation Organization

PICCA
Positive Ion Cluster Composition Analyzer

PIDAS
Portable Instant Display and Analysis Spectrometer

PIDP
Programmable Indicator Data Processor

PIG
1. Pendulons Intergrating Gyro
2. Phillips Ionization Gauge
3. Plasma Ion Generator

PIGA
Pendulons Integrating Gyro Accelerometer

PIMMR
Passive Imaging Multichannel Microwave Radiometer

PIMS
Plasma Interactions Monitoring System

PIO
Pilot Induced Oscillations

PIP
Pulsed Integrating Pendulum

PIXE
Proton Induced X-ray Emission

PIXIE
Polar Ionosphere X-ray Imaging Experiment

P/K
Printer/Keyboard

P/L
Payload

PL OPPTY
Payload Opportunity

PLAAR
Packaged Liquid Air Augmented Rockets

PLACE
Position, Location and Communications Experiment

PLAN
Planetary Trajectory

PLANET

1. Planing Evaluation Technique
2. Planned Logistics Analysis and Evaluation Techniques

PLAT
Pilot Landing Air Television (System)

PLB
Payload Bay (Space Shuttle)

PLC

1. Payload Commander (Member of the Shuttle crew having overall crew responsibility for planning, integration, and on-orbit coordination of payload mission activities.)
2. Pressurized Logistics Carrier

PLCU

Propellant Level Control Unit

PLDS

Pilot Land Data System

PLIE

Phase Linear Interferometer Experiment

PLL

Phase Lock Loop

PLS

Primary Landing Site (Space Shuttle)

PLSS

1. Primary Life Support System
2. Portable Life Support System

PLT

Pilot (Member of the Shuttle crew)

PLUM

Polymerization With Light Under Microgravity

PM

1. Polymer Morphology
2. Pressurized Module

PMAD

Power Management and Distribution

PMBT

Propellant Mean Bulk Temperature

PMC

Permanently Manned Capability

PMG

Plasma Motor Generator

PMGP

Planetary Materials and Geochemistry Program

PMIRR

Pressure Modulator Infrared Radiometer (Mars Observer)

PMS

1. Platform Management System
2. Pollution Monitoring Satellite
3. Propellant Management Subsystem

PMT

PhotoMultiplier Tubes

PMZF

Programmable Multi-Zone Furnace

PN

Pseudonoise (sequence)

PNL

1. Pacific Naval Lab. (Canada)
2. Panel

PNM

Pulse Number Modulation

PNS

Portsmouth Naval Shipyard, N. H.

PNS-ETL

Electrical Testing Lab., Portsmouth Naval Shipyard, N. H.

POCC

1. Payload Operation Control Center
2. Project Operations Control Center

PODS

Pilot Ocean Data System

POED
Post Office Engineering Dept. (GT. Brit.)

POEM
Polar-Orbit Earth Observation Mission

P/OF
Pinhole Occulter Facility

POGO
Polar Orbiting Geophysical Observatory

POIC
Payload Operations Integration Center

POLO
Polar Orbiting Lunar Observatory

POLTAZ
Epoxy Resin (Oxidizer binder)

POLYDOP
Polystation Doppler (Tracking System)

POP
1. Perpendicular to Orbital Plane
2. Polar Orbiting Platform

POTV
Personnel Orbit Transfer Vehicle

P/P
Power Propulsion

PPCD
Programmable Platforms for Collection of Data

PPDD
Plan Position Data Display

PPE
Phase Partitioning Experiment

PPF Positive Position Feedback

PPG Picopicogram (10-240 grams)

PPI Plan Position Indicator

PPL Polar Plasma Laboratory (Satellite in the OPEN program)

PPM Pulse Position Modulation

PPR

1. Pathfinder Planetary Rover
2. Photopolarimeter/Radiometer (Galileo Spacecraft)

PPS Pulses Per Second

PPU Power Processing Unit (solar electric propulsion)

PR Precipitation Radar

PRC Planer Random Composites (fiber reinforced composites)

PRCF Plutonium Recycle Ceramic Fuel

PRCS Primary Reaction Control System (Jet)

PRF Pulse Recurrence Frequency

PRL

6570th Personnel Research Lab., Aerospace Medical Div., Air Force Base, Tex.

PRM

Pulse Ratio Modulation

PRN - Modulation

Pulse Ratio Noise Modulation

PROFAC

Propulsive Fluid Accumulator

PROM

Programmable Read-Only Memory

PROMIS

Polar Regions Outer Magnetosphere International Study

PRSDS

Power Reactant Storage and Distribution System

PRTR

Plutonium Recycle Test Reactor

PS

Payload Specialist (Member of the Shuttle crew, who is not a NASA astronaut, whose presence is required to perform specialized functions with respect to one or more payloads or other mission unique activities)

PSA

1. Power Section Assembly
2. Provision Stowage Assembly

PSAS

Phenytoin for Space Adaptation Syndrome

PSB

Persistent Slip Band

PSC

1. Performance Seeking Control
2. Platform Support System
3. Polar Stratospheric Clouds

PSCN
Program Support Communications Network

PSE
Physiological Systems Experiment

PSIL
Preferred Speech Interference Level

PSK
Phase-Shift-Keyed (modulation)

PSL
Propulsion Systems Laboratory

PSNS-ML
Material Labs., Puget Sound Naval Shipyard, Bremerton, Wash.

PSP
Payload Signal Processor (Space Shuttle)

PSR
Precision Segmented Reflector

PST
Pacific Standard Time

PTEC
Plastics Technical Evaluation Center, Picatinny Arsenal, Dover, N.J.

PTF
Payload Training Facility

PTFE
PolyTetraFluoroEthylene

PTM

1. Proof Test Model
2. Pulse Time Modulation
3. Pulse Time Multiplex

PTS
Permanent Threshold Shift

PTZ
Pan/Tilt/Zoom

PU
Propellant Utilization

PUCK
Propellant Utilization Checkout Kit

PUR
Payload Under Review

PUVEP
Propellant Utilization Vehicle Electronic Package

PV
Photovoltaic

PVC
Polyvinylchloride or Polyvinyl chloride

PV&D
Purge, Vent & Drain

PVD
Plain View Display

PVOR
Precision Very-High-Frequency Omnidirectional Range (VOR)

PVTOS
Physical Vapor Transport of Organic Solids

PWFA
Plasma Wakefield Accelerator

PWI
Proximity Warning Instrument
Pilot Warning Indicator (See: CAS-Collision Avoidance System)

PWIA
Plane Wave Impulse Approximation

PWL
Power Watt Level (Acoustic units of measurement, sound power level)

PWM
Pulse Width Modulation

PWR
Pressurized Water Reactor

PY
Program Year

PZT
Lead Zirconate Titanate

Q

- Q
Quality Factor
- QA
Quality Assurance
- QC
Quality Control
- QCD
Quantum Chromodynamics
- QCSEE
Quiet, Clean Short-Haul Experimental Engine Program
- QD
Quick Disconnect
- QDSB
Quadrature Double Sideband
- QED
Quantum Electrodynamics
- QFCIAF
Quartermaster Food and Container Inst. for the Armed Forces, Chicago, Ill.
- QFEA
Quartermaster Field Evaluation Agency Fort Lee, Va.
- QPLT
Quiet Propulsion Lift Technology Program
- QPSK
Quadrature Phase Shift Keying
- QREC
Quartermaster Research and Engineering Command, Natick, Mass.
- QS
Body Heat Storage Index

QSO

Quasi-Stellar Object (Quasar)

QSRA

Quiet, Short-Haul Research Aircraft

QUESTOL

Quiet, Experimental, Short Takeoff and Landing (Aircraft/Program)

R

R

Degree Rankine

R&A

Research and Analysis

R&D

Research and Development

RA-5C Aircraft

(A 3J Aircraft, Vigilante Aircraft, or JRA-5C Aircraft)

RAC

Reactor Accident Calculation (computer program)

RAD

Radiation Absorbed Dose

RADA

Random Access Discrete Address System

RADAM Project

Radar of the Amazon (Aerial survey project in Brazil similar to LANDSAT)

Radar

Radio Detection and Ranging

Radarsat

Radar Satellite

RADC

Rome Air Development Center Griffiss Air Force Base, N.Y.

RADCAL

Radar Calibration Satellite

RADCAT

Radar Calibration Targets

RADL

Robotics Applications Development Laboratory

RADM
Regional Acid Decomposition Model

RADS
(Radiation Dose Absorbed by Tissue)

RADSCAT
Radiometer-Scatterometer

RAE
1. Radio Astronomy Explorer
2. Royal Aircraft Establishment (Gt. Brit.)

RAE B
Explorer 49

RAE 2
Explorer 49

RAIL
Runway Alignment Indicator Lights

RAM
1. Radar Absorbing Material
2. Random Access Memory
3. Research and Applications Module
(Space Shuttle and Space Station)

RAM Project
Radio Attenuation Measurement Project

RAMTAC
Reentry Analysis

RANN
Research Applied to National Needs

RAPCON
Radar Approach Control Facility (USAF)

RAPPI
Random Access Plan Position Indicators

RARDE
Royal Armament Research and Development Establishment (Gt. Brit.)

RASCAL
Random Access Secure Communication Anti-Jam Link

RASSAS
Radio Astronomical Space System of Aperture Synthesis

RATCF
Radar Air Traffic Control Facility (USN)

RATSCAT
Radar Target Scatter Site (Program)

RAVE
Research on Atmospheric Volcanic Emission

R/BPA
Rudder/Pedal Brake Assembly (Space Shuttle)

RBS
Rutherford Backscattering Spectrometry

RBV
Return Beam Vidicon Type of Camera used in ERTS-1 Satellite

RC
Resistance Capacitance

RCA
Radio Corp. of America

RCAF
Royal Canadian Air Force

RCAG
Remote Communications Air-Ground (facility)

RCC
Recovery Control Center

RCL
(Total Heat Transfer Resistance)

RCLF
Runway Centerline System

RCP
Right Circular Polarization

RCS
Reaction Control System

RCSP
Radar Calibration Spheres Project

RDA
Recommended Dietary Allowance

RDB
Relational Data Base

RDBMS
Relational Data Base Management System

RDC
Regional Dissemination Centers

RDF

1. Radar Direction Finder
2. Radio Direction Finder

RDP
Radar-Data Processing

RCR
Runway Condition Reading

RDX

1. Cyclotrimethylene Trinitramine
2. Trinitro-Triazocyclohexane

REAUMUR Scale
(Ice point to steam point divided into 80 parts)

REB
Relativistic Electron Beams

REE
Rare Earth Elements

REEF
Regression Estimation of Event Probabilities

REFRASIL
(Insulation material in Rocket Motor Cases)

REIL
Runway-End Identifier Lights

REM
1. Release Engagement Mechanism
2. Roentgen Equivalent Man

RENE
Rocket Engine Nozzle Ejector (Program)

REQ
Request

RES
Reticula Endothelial System

RETORC
Research Torpedo Configuration

REV
Revolution

REX
1. Radiation Experiment
2. Reflector Erosion Experiment

RF
Radio Frequency

RFC
Regenerative Fuel Cell

RFI
Radio Frequency Interference

RFP
Request for Proposal

RFTR
Rocket Fuel Test Reactor

RGA
Rate Gyro Assembly (Space Shuttle)

RGP
Rate Gyro Package

RH
Relative Humidity

RHET
Resonant Tunneling Hot Electron Transistor

RHS
Rehydration Station

RIACS
Research Institute for Advanced Computer Science

RIAL
Rock Island Arsenal Labs., Ill.

RIC
Rockwell International Corp.

RICHEL
Richmond-Cape Henry Environmental Laboratory

RID
Range Instruments Development

RIF
Reductions-In-Force

RIFT
Reactor In-Flight Test (Project)

RIMS
Retarding Ion Mass Spectrometer

RISC
Reduced Instruction Set Computer

RITE
Regenerative Intercooled Turbine Engine

RM
Redundancy Management

RM-CW
Random-Modulation Continuous Wave

RME
Radiation Monitoring Equipment

RME-3
Radiation Monitoring Experiment-3

RMFT
Reconnect Magnetic Flux Tubes

RMP
Rate Measuring Package

RMS

1. Root Mean Square
2. Remote Manipulator System

RMU
Remote Maneuvering Unit

RNA
Ribonucleic Acid

RNAV
Random Navigation area Navigation

RNPRC
Royal Naval Personnel Research Committee (Gt. Brit.)

ROC

1. Reduced Oxygen Concentration
2. Regional Operations Center

ROE
Reflector Orbital Experiment

ROM
1. Read-Only-Memory
2. Rough Order of Magnitude

ROMPS
Robotic Materials Processing System

ROSAT
Roentgen Satellite

ROSE
Remotely Operated Special Equipment

ROSS
Remote Orbital Servicing System

ROTV
Reusable Orbital Transfer Vehicle

RPC
Remote Power Controller

RPE
Rocket Propulsion Establishment (Gt. Brit.)

RPRV
Remotely Piloted Research Vehicle

RPV
Remote Piloted Vehicles

RRA
Resident Research Associateship

RRAS
Radiofrequency Resonance Absorption

RRE
Royal Radar Establishment (GT. Brit.)

RS
Robotic Servicer

RSB
Rudder Speed Brake

RSC
Range Safety Command

RSI
Reusable Surface Insulation

RSIC
Redstone Scientific Information Center, Redstone Arsenal, Ala.

RSRA
Rotor Systems Research Aircraft

RSRM
Redesigned Solid Rocket Motor

RSS
1. Root-Sum-Square
2. Rotating Service Structure

RSTN
Radio Solar Telescope Network

RSVP
Restartable Solid Variable Pulse (Rocket engine)

RTAC
Research and Technology Advisory Council

RTCA
Radio Technical Commission for Aeronautics

RTD
1. Research and Technology Div., Air Force Systems Command, Edwards, Calif.
2. Resistance Temperature Device

RTEAM
Real Time Environmental and Agricultural Monitoring

RTG
Radioisotope Thermionic Generator

RTLS
Return to Launch Site
(Abort separation conditions for Space Shuttle Orbiter and External Tank)

RTOL
Reduced TakeOff and Landing

RTOP
Research and Technology Objectives and Plans

RTS
Remote Tracking Station (Space Shuttle)

RTV
Room Temperature Vulcanizing

RVR
Runway Visual Range

RVV
Runway Visibility Value

RWA
Reaction Wheel Assembly

S

S

Scout (Small class expendable launch vehicle)

S&A

Safety and Arming Device

SA

1. Single Access
2. Springfield Armory, Mass.

SAA

South Atlantic Anomaly

SAAP

Sample Acquisition, Analysis and Preservation (Pathfinder)

SAB

1. Satellite Assembly Building
2. Storage and Assembly Bldg.
(Also VAB - Vehicle Assembly Bldg.)

SABER

Swing-Arm Beam Erector

SAC

Strategic Air Command

SAC-B

Satellite de Aplicaciones Cientificas-B (Argentina)

SACC

Science and Applications Computing Center

SAC-O

Strategic Air Command, Offutt Air Force Base, Nebr.

SADE

Structural Assembly Demonstration Experiment
(for orbital assembly of large space structures)

SADTC

SHAPE Air Defense Technical Center, The Hague (Netherlands)

SAF

Spacecraft Assembly Facility
(VAB - Vehicle Ass. Bldg. (KSC/NASA))

SAFDE

Solar Array Flight Dynamic Experiment

SAFE

1. San Andreas Fault Experiment
2. Solar Array Flight Experiment

SAFI

Semi-Automatic Flight Inspection

SAGA

Software Application, Generation and Administration

SAGE

Stratospheric Aerosol and Gas Experiment

SAGT

Solarized Advanced Gas Turbine

SAIS

Science and Applications Information System

SALT

Special (Purpose Inexpensive Satellite) Altimeter

SAM

1. Shuttle Activation Monitor
2. Sound Absorbing Materials
(See RAM - Radar Absorbing Materials)

SAM-B

School of Aerospace Medicine, Brooks Air Force Base, Tex.

SAM II

Stratospheric Aerosol Measurement 2

SAMEX

Soviet American Microwave Experiment

SAMIS

Structural Analysis and Matrix Interpretive System

SAMPIE

Solar Array Module Plasma Interaction Experiment

SAMPEX

Solar, Anomalous, and Magnetospheric Particle Explorer

SAMS

1. Space Acceleration Measurement System
2. Stratospheric and Aerospheric Sounder

SAMSAT

Solar Activity Monitoring Satellites
(NOAA/UAF)

SAMSO

Space and Missiles Systems Organization

SAO

Smithsonian Astrophysical Observatory

SAP

Sintered Aluminum Product

SAR

1. Scientific Absorption Rate
2. Search and Rescue
3. Stable Auroral Red (arc)
4. Synthetic Aperture Radar

SAREX

Shuttle Amateur Radio Experiment

SARP

Signal Automatic Radar Processing

SARSEX

SAR internal wave Signature EXperiment

SAS

1. Space Adaptation Syndrome
2. Stability Augmentation System

SAS-A
Small Astronomy Satellite-A

SASP
Science and Applications Space Platforms

SASS
Seasat-A Satellite Scatterometer

SATAN
Sensor for Airborne Terrain Analysis

SAW
Surface Acoustic Wave

SAXS
Small-Angle X-ray Scattering

SMD
Sauter Mean Diameter (Particles)

SBA
Small Business Administration

SBADPCM
Sub-Band Adaptive Differential Pulse Mode Modulation

SBBN
Standard Big Bang Nucleosynthesis

SBF
1. Single Barrier Failure
2. Skin Blood Flow

SBIR
Small Business Innovative Research

SBS
Satellite Business Systems

SBUV/TOMS
Solar Backscatter Ultraviolet Spectrometer/Total Ozone Mapping Spectrometer

SCALE
Shuttle Coherent Atmospheric LIDAR Experiment

SCAR
Supersonic Cruise Aircraft Research

SCA/SMS
Shuttle Carrier Aircraft/Shuttle Mission Simulator

SCAS
Stability and Control Augmentation Systems

SCAT
Supersonic Commercial Air Transport

SCATHA
Spacecraft Charging at High Altitude (satellite)

SCATS
Simulation Checkout And Training System
(Realistic simulation facility for training Gemini and Apollo mission personnel)

SCB
Steering Control Box (Space Shuttle)

SCCEG
Scientific Coordinating Committee for Experimental Gravitation

SCEPS
Stored Chemical Energy Propulsion System

SCET
SpaceCraft Event Time

SCF
1. Self-Consistent Field
2. Science Computing Facility

SCG
Science Coordinating Group

SCLC
Space Charge Limitations of Currents

SCM
System Control Module (Space Shuttle)

SCO
Subcarrier Oscillator
(Biotelemetry instrumentation for space applications)

SCOLE
Spacecraft Control Laboratory Experiment

SCP
Siliga-Cloth Phenol

SCR
1. Selective Chopper Radiometer
2. Silicon Control Rectifier
3. Solar Cosmic Radiation

SCRAM
1. Space Capsule Regulator and Monitor (Raytheon)
2. Supersonic Combustion Ramjet

SCRAMJET
Supersonic Combustion Ramjet

SCRN
Spectra of Cosmic Ray Nuclei

SCS
Sweep Control Sequence

SCSS
Scene Correcting Subsystem
Supersonic Combustion Ramjet

SCU
Sequence Control Unit (Space Shuttle)

SCW
the SuperCritical Wing

SD
Standard Deviation

SDCI
Singles and Doubles Configuration Interaction (Quantum Chemistry)

SDCS
Simulation Data Conversion System
(Space Flight Operations Facility (NASA))

SDI
Strategic Defense Initiative

SDIMU
Strap Down Inertial Measuring Unit
(see also IMU)

SDIO
Strategic Defense Initiative Organization

SDL
Systems Development Laboratory, JPL

SDLV
Shuttle-Derived Launch Vehicle

SDMS
Standard Database Management System

SDP
1. Site Data Processor
2. Standard Data Processor

SDTN
Space and Data Tracking Network

SDV
Shuttle Derived Vehicle

SE
1. Storage Element
2. Student Experiment
3. Systems Engineering

SE&I
System Engineering & Integration

SEA
Sudden Enhancement of Atmospherics

SEADS
Shuttle Entry Air Data System

SEAMAP
Scientific Exploration and Mapping Program

SEASAT
Specialized Experimental Applications Satellite

SeaWiFS
Sea-Viewing Wide Field Sensor

SEC
Secondary Electron Conduction

SECANT
Separation and Control of Aircraft using Nonsynchronous Techniques

SECOR
Sequential Collation of Range Satellite

SED
Spectral Energy Distribution

SEDA
Secondary Electron Detector Assembly

SEDS
Small Expendable Deployer System

SEEDS
Space Exposed Experiment Developed for Students

SEI

1. Software Engineering Institute (DoD)
2. Space Exploration Initiative

SELSIS
Space Environment Laboratory Solar Imaging System

SEM

1. Scanning Electron Microscope
2. Space Environment Monitor
3. Standard Electronic Module
4. Storm Electrification Model

SEMM

Solar-Electric Multimission Spacecraft

SEMOS

Space Environment Monitoring System

SEMPA

Scanning Electron Microscope and Particle Analyzer

SEOCS

Sun-Earth Observatory and Climatology Satellite

SEOS

Synchronous Earth Observatory Satellite

SEO

Synchronous Equatorial Orbiter

SEP

1. Solar-Electric Propulsion
2. Solar Energetic Particles
3. Surface Electrical Properties

SEPAC

Space Experiment with Particle Accelerators (payload)

SEQUAL

Seasonal Response of the Equatorial Atlantic

SERIES

Satellite Emission Range Infrared Earth Survey

SERN

Single Expansion Ramp Nozzle
(An aircraft engine exhaust nozzle)

SERT

1. Space Electric Rocket Test
2. Spinning Satellite for Electric Rocket Test

SERTS

Solar Extreme Ultraviolet Telescope and Spectrograph

SES

1. Stirling Engine System
2. Suffield Experimental Station (Canada)

SESAC

Space and Earth Sciences Advisory Committee

SESAME

Severe Environmental Storm and Mesoscale Experiment

SET Program

Solar Energy Thermionic Program

SETI

Search for Extraterrestrial Intelligence

SETS

1. Solar Electric Test Satellite
2. Solar Energy Thermionic Conversion System (NASA)
3. Stereo Electro-optical Tracking System

SEU

Single-Event Upset

SFA

Single Frequency Approach

SFDU

Standard Formatted Data Unit

SFE

Space Frequency Equivalence

SFHe

Superfluid Helium

SFIR
Sequential Filter Imaging Radiometer

SFMD
Storable Fluid Management Demonstration

SFO
Simulated Flameout

SFOF
Space Flight Operations Facility

SFP
1. Single Failure Point (Space Shuttle)
2. Space Flight Participant (A Shuttle crew member whose presence is not required for operation of payloads or mission unique activities)

SFU-RET
Space Flyer Unit - Retrieval

SGEMP
System-Generated Electro-Magnetic Pulse program

SGG
Superconducting Gravity Gradiometer

SGR
Sodium Graphite Reactor

SHARE
Space Station Heat Pipe Advanced Radiator Element

SHEAL
Shuttle High Energy Astrophysics Laboratory

SHF
Super High Frequency

SHIP
Simplified Helmholtz Integral Program

SHOOT
Superfluid Helium On-Orbit Transfer

SI
1. International System of Units
2. Solar Inertial

SIAM
Self Initiated Antiaircraft Missiles

SIB
Simple Biosphere

SIC
Structural Influence Coefficient

SID
1. Standard Instrument Departure
2. Sudden Ionospheric Disturbance

SIFT
System Identification from Tracking

SIH
System for Hydrometeorological Information (Brazil)

SII
Space Industries, Inc.

SIL
Speech Interference Level

SILTS
Shuttle Infrared Leaside Temperature Sensing

SIM
Scientific Instrument Module (Lunar satellite - Apollo 15)

SIMD
Single Instruction Stream/Multiple Data

SIMICOR
Simultaneous Image Correlation

SIMS
Secondary Ion Mass Spectrometry

SIP
Satellite Interceptor Program

SIR
1. Shuttle Imaging Radar
2. Spaceborne Imaging Radars (series)

SIR-C
Shuttle Imaging Radar-C

SIRD
Support Instrumentation Requirements Document

SIREN capsule
Sanders Intact Reentry Encapsulation

SIRS
Satellite Infrared Spectrometer

SIRTF
1. Space Infrared Telescope Facility
2. Shuttle Infrared Telescope Facility

SIS
1. Simulation Induced Sickness
2. Single Interceptor Satellite
3. Superconductor-Insulator-Superconductor

SISEX
Shuttle Imaging Spectrometer Experiment

SIT
Satellite Inspector Target

SITE
Satellite Instructional Television Experiment

SIVB
(Third stage (IVB) of Saturn Launch Vehicle)

S/L
Spacelab

SLAC
Spacelab Lyman Alpha Coronagraph

SLAR
Side Looking Airborne Radar

SLBM
1. Space-Launched Ballistic Missile
2. Submarine-Launched Ballistic Missile

SLC
Shuttle Launch Complex (VAFB)

SLEEC
Shingle Lap Extendible Exit Cone

SLM
1. Single-Longitudinal-Mode (lasers)
2. Spatial Light Modulator

SLOC
Source Lines of Code

SLR
1. Satellite Laser Ranging
2. Side-Looking Radar

SLS
Space Life Sciences Laboratory

SLS-1
Spacelab Life Sciences One

SLSTP
Space Life Sciences Training Program

SLV
Standard Launch Vehicle

SM
1. Service Module
2. Systems Management

SMC
System Management Center

SME
1. Shape Metal Effect
2. Solar Mesosphere Explorer

SMEAT
Skylab Medical Experiments Altitude Test

SMEX
Small-Class Explorer

SMF
Space Medical Facility

SMM
Solar Maximum Mission
(Program using Earth Observatory Satellite)

SMMC
Systems Maintenance and Monitoring Console

SMMR
Scanning Multichannel (or Multifrequency) Microwave Radiometer
(Nimbus-7)

SMRD
Spin Motor Rotation Detector

SMRM
Solar Maximum Repair Mission

SMS
Synchronous Meteorological Satellite

SMSS
Soil Mechanics Surface Sampler

SMT
Surface Mount Technology

SMTRB
Ship and Marine Technology Research Board (United Kingdom)

SMU
Space Self-Maneuvering Unit

SMY
Solar Maximum Year

SN
1. Signal-to-Noise ratio
2. Succinonitrile

S-N
Superconducting - Normally conducting

SNAP
System for Nuclear Auxiliary Power Program

SNG
Synthetic Natural Gas

SNORT
Superson Naval Ordnance Research Track

SNR
Signal-to-Noise Ratio

SOAP
Spectrometric Oil Analysis Program

SOAP
Systems/Operations Analysis of Programs

SOAR
Space Orbiting Advanced Fusion Power Reactor

SOC
Space Operations Center
(Manned Orbital Space Station)

SOCM
Stand Off Clustered Munition (Missile)

SOEP
Solar Oriented Experiment Package

SOFIA
Stratospheric Observatory for Infrared Astronomy

SOHO
Solar and Heliospheric Observatory

SOI
Solar Oscillations Imagery (Experiment)

SOI
Spin-scan Ozone Imager

SOLCON
measurement of SOLar CONstant

SOLSPEC
SOLar SPECTrum measurement

SONO
Solar and Heliospheric Observatory

SOON
Solar Observing Optical Network

SOOS
Stacked OSCAR On Scout (Two OSCAR Satellites)

SOP
Standard Operating Procedures

SOR
Successive Overrelaxation (mathematics)

SORTE
Shuttle Orbiter Radar Test and Evaluation

SOS

1. Silicon-On-Sapphire
2. Space Operations Simulator

SOT
Solar Optical Telescope

SOTP

Saturn Orbiter/Titan Probe

SOUP

1. Solar Optical Universal Polarimeter
2. Spectrum Orbit Utilization Program

SOW

Statement of Work

SPACE

1. Satellite Precipitation and Cloud Experiment
2. Spacecraft Prelaunch Automatic Checkout Equipment

SPADATS

Space Detection and Tracking System

SPADE

Sparta Acquisition Digital Equipment

SPADVOS

Spaceborne Direct Viewing Optical System

SPAM

Scanning PhotoAcoustic Microscopy

SPAN

1. Space Plasma Analysis Network
2. Space Physics Analysis Network

SPAR

1. Space Power Advanced Reactor Program (Los Alamos)
2. Space Processing Applications Rocket
3. Structural Performance Analysis and Redesign

SPARC

1. Slant Path Atmospheric Refraction Calibrator
2. Spectral Analysis and Recognition Computer

SPARTAN

Shuttle-Pointed Autonomous Research Tool for Astronomy

SPAS

Shuttle Pallet Satellite

SPB/DB

Superplastic Forming/Diffusion Bonding

SPDL

Structured Program Design Language

SPE

1. Solar Particle Event
2. Solid Polymer Electrolyte

SPF

1. Single-Point Failure
2. Space Power Facility
3. Specific Pathogen Free

SPG

Sinusoidal Pressure Generator

SPHA

Self Paced Heat Acclimation

SPI

1. Surface Position Indicator (Space Shuttle)
2. Symbolic Pictorial Indicator

SPL

1. Sound Pressure Level (Dynes/cm²; acoustic unit of measure)
2. Solar Pumped Laser

SPM

Solar Proton Monitor

SPO

1. Sacramento Peak Observatory, Sunspot, N. Mex.
2. Solar Polar Orbitor

SPOT

1. Speed Position and Track
(synchronous navigation satellite system)
2. System Probatoire d'Observation de la terre

SPP

Solar Pumped Plasma

SPS

1. Satellite Power System
2. Solar Power Satellites

SPTN

Shuttle Pointed Autonomous Research Tool for Astronomy

SPUR

Space Power Unit Reactor

SPURT

Spinning Unguided Rocket Trajectory

SQL

Structural Query Language

SQUID

Superconducting Quantum Interference Detectors

SR

1. Saturable-Core Reactor
2. Scanning Radiometer

SRA

Spherical Radiation Absorber

SRB

Solid Rocket Booster (Space Shuttle)

SRDE

Signals Research and Development Establishment (Gr. Brit.)

SRE

Sodium Reactor Experiment

SRIXE

Synchrotron Radiation Induced X-ray Emission

SRL

Space Radar Laboratory

SRM

1. Safety, Reliability, and Maintainability
2. Solid Rocket Motor

SRO
Savannah River Operation Office AEC

SRR
Systems Requirements Review

SRSV
Satellite Robot Simulator Vehicle

SS
1. Space Station
2. Sun Synchronous polar orbit

SSA
Space Suit Assembly

SSB
1. Single Sideband
2. Space Science Board

SSBUV
Shuttle Solar Backscatter Ultraviolet Instrument

SSC
1. Committee on Ship Structure, National Research Council, Washington, D.C.
2. John C. Stennis Space Center
3. Superconducting Super Collider

SSCC
Space Station Control Center

SSCE
Solid Surface Combustion Experiment
Space Station Cargo Element(s)

SSD
Space Systems Div., Air Force Systems Command, Inglewood, Calif.

SSDN
Sun-Synchronous Day/Night

SSE
Software Support Environment

SSEC
Solar System Exploration Committee

SSEMU
Space Station Extravehicular Mobility Unit

SSF
Space Station Freedom

SSFEPS
Space Station Freedom Electrical Power System

SSFMB
Space Station Freedom Manned Base

SSFPO
Space Station Freedom Program Office

SSFUF
Space Station Freedom Utilization Flight

SSG
Standard Specific Gravity

SSGS
Standardized Space Guidance System

SSIP
Shuttle Student Involvement Program

SSIS
Space Station Information System

SSM/I
Special Sensor Microwave Imager

SSME
Space Shuttle Main Engine

SSMF
1. Space Station Microwave Facility
2. Space Station Millimeter Facility

SSMI
Special Sensor Microwave Imager

SSO
Space Shuttle Orbiter

SSOT
Single Stage to Orbit

SSP
1. Site Survey Payload
2. Space Station Program

SSPF
Space Station Processing Facility

SSR
Secondary Surveillance Radar

SSRMS
Space Station Remote Manipulator System

SSRS
Start Start Restart System

SSS
1. Satellite Servicer System
2. Satellite Surveillance System

SSS-A
Explorer 45

SSSA
Space Station Solar Array

SST
1. Satellite Servicing Technology
2. Satellite to Satellite Tracking
3. Sea Surface Temperature
4. Spacecraft Systems Test
5. Supersonic Transport

SSTIR
Sea-Surface Temperature Imaging Radiometer

SSTO

Single-Stage-To-Orbit

SSU

Stratospheric Sounding Unit

ST

Star Tracker (Space Shuttle)

STADAN

1. Satellite Tracking and Data Acquisition Network
2. Space Tracking and Data Acquisition Network

STAFF

Stellar Acquisition Feasibility Flight

STAGG

Small Turbine Advanced Gas Generator

STAMP

Stratospheric/Troposphere Aerosol Measurement Program

STAMP

Space Technology and Analysis and Mission Planning

STAR

1. Scientific and Technical Aerospace Reports (publication)
2. Sistema Telemetrico de Aquisicao e Registro de Dados (Telemetric Data Acquisition and Registration System -- Brazilian Space Program)
3. Standard Terminal Arrival route

STARPAHC

Space Technology Applied to Rural Papago Advanced Health Care (Project)

STAT

Small Transport Aircraft Technology

STBD

Starboard

STBE

Space Transportation Booster Engine

STD

1. Science and Tech Div., Library of Congress, Washington, D.C.
2. Standard

STDN

Spaceflight Tracking and Data Network

STEDS

Shuttle Tether Deployer System

STELLAR

Star Tracker for Economical Long Life Attitude Reference

STEM

1. Scanning Transmission Electron Microscope
2. Stay Time Extension Module (Project Apollo)

STEP

1. Solar-Terrestrial Energetics Program
2. Space Technology Experiment platform
3. Space Test Program
4. Structures Technology Experiments Platform
5. Stratosphere-Troposphere Exchange Project
6. Supra-Thermal through Energetic Particle (sensor)

STEPO

Self-Contained Toxicological Environmental Protection Outfit

STEX

Sensor Technology Experiment

STIF

Scientific and Technical Information Facility

STIKSCAT

Stick Scatterometer

STINGS

Stellar Inertial Guidance System

STL

1. Science and Technology Laboratory
2. Space Tissue Loss

STME
Space Transportation Main Engine

STO
1. Solar-Terrestrial Observatory
2. Spater-Type Orbital

STOL
Short Takeoff and Landing

STOLAND
STOL Navigation and Landing System

STOVL
Short Take-Off and Vertical Landing

STP
1. Standard Temperature and Pressure
2. Space Test Program

STP-x
Space Test Program-x

STS
1. Solar-Terrestrial Science
2. Space Transportation System

STTP
1. Solar-Terrestrial Theory Program
2. Life Sciences Space Technology Training Program

STV
Space Transfer Vehicle

SU3
(Three-Dimensional Symmetry)

SUBIC
Submarine Integrated Control Project

SUMS
Shuttle Upper Atmosphere Mass Spectrometer

SUNLITE
Stanford University/NASA Lidar In-Space Technology Experiment

SURF
Space Ultra-Vacuum Research Facility
Synchrotron Ultraviolet Radiation Facility

SURVSAT
Survivable Satellite Communication System

SUSIM
Spectral Irradiance Monitor

Sv
Sievert (Radiation dose unit of measure)

SVFR
Special Visual Flight Rules

SVO
Solar Variability Observatory

SWA
Special Warfare Agency, Fort Bragg, N. C.

SWADE
Surface Wave Dynamics Experiment

SWAPP
Surface Wave Processes Program

SWAS
Submillimeter Wave Astronomy Satellite

SWATEM
Small-Force Weapons and Tactics Evaluation Model

SWG
Science Working Group

SWICS
Solar Wind Ion Composition Spectrometer

SWIR
Short Wave Infrared

SWP
Short Wavelength Prime (Camera on IUE)

SWS
Saturn Workshop

SYNCOM
Synchronous Communications Satellite

SYS
System

T

TA

Triacetin

TAA

1. Thioacetamide
2. Triaxial Angular Accelerometer
3. Turbine Alternator Assembly

TABLASER

(Trace (element) Analyzer Based on Laser Ablation and Selectivity Excited Radiation)

TAC

1. Tactical Air Command, Langley Air Force Base, Va.
2. Technology Application Centers (NASA)

TAC

Turbine Alternator Compressors

(Major component of experimental nuclear power generation system capable of producing up to 100 kilowatts)

TACAN

Tactical Air Navigation

TACT

Transonic Aircraft Technology Program

TAE

Transportable Applications Executive

TAEM

Terminal Area Energy Management guidance

TAFIES

Tactical Air Force Intelligence Exploitation System

TAG Azide

Triaminoguanidinium

TAGN

Triaminoguanidine Nitrate
(nitramine propellant)

TAGS

1. Tower Automated Ground Surveillance (System)
2. Tactical Aircraft Guidance program

TAL

Transatlantic Abort Landing (Space Shuttle)

TAMICSS

TAFIES Microfilm Subsystem

TAMMS

Tropospheric Air Motion Measurement Systems

TAP

Toxicological Agent Protective (suit)

TAPS

Two Axis Pointing System

TARGET

Team to Advance Research for Gas Energy Transformation

TASI

Time Assignment Speech Interpolation

TAT

Technology Applications Team

TATB

Triaminotrinitrobenzene

TAV

Transatmospheric Vehicle

TAVERNS

Test and Validation Environment for Remote Networked Systems

TAZ

Triaminoguanidinium

TAZI

Triaminoguanidinium Azide

TB
Weighted Mean Body Temperature

TBD
To Be Determined

TBP
Tri-Butyl Phosphate

TBR
Total Body Radiation

TBT
Total Body Temperature

TC
Core Temperature

TCA
Terminal Control Area

TCG
Transponder Control Group

TCM
Temperature Control Model

TCP

1. Test and Checkout Plan
2. Transmission Control Protocol
3. Technical Change Proposal

TCP theorems
(T - time inversion operations; C - parity operations; P - charge conjugation operation)

TCR

1. Temperature Coefficient of Resistance
2. Two Color Refractometer

TCS
Thermal Control System (Subsystem)

TCT
Tone Calibrated Technique

TCU
Tape Control Unit

TCV
Terminal-Configured Vehicles

TD
1. Tape Driver
2. Touch Down (Space Shuttle)

TDA
Toluene - 2,4 - Diamine

TDAS
Tracking and Data Acquisition System

TDASS
Tracking and Data Acquisition Satellite System

TD&E
Transposition Docking and Extraction

TDI
Toluene - 2,4 - Diisocyanate

TDM
Time Division Multiplexed

TDMA
Time-Division Multiple Access

TDRS
Tracking and Data Relay Satellite

TDRS-II
Tracking and Data Relay Satellite Series-II

TDRSS
Tracking and Data Relay Satellite System

TDSS
Telemetry Data Signal Simulator

TDZ
Touchdown Zone

TDZL
Touchdown Zone Light System

TEA
1. Torque Equilibrium Attitude
2. Transversely Excited Atmospheric Pressure Laser

TEC
Transearch Coast

TED
1. Thermoelectric Devices
2. Transmission Electron Diffraction

TEEM
Electron Emission Microscope

TEI
Transearch Injection

TELESAT
Canadian Telecommunications Satellite

TELOPS
Telemetry On-line Processing System

TELSTAR
AT&T Communications Satellite

TEM
Transmission Electron Microscopy

TEM_{oo}
Transverse Electromagnetic Mode (oo is direction of plane)

TEMP
1. Thermal Energy Management Process (experiment)
2. Two phase Mounting Plate Experiment

TEP
Transmitter Experiment Package

TERRESTAR
Terrestrial Application of Solar Technology and Research

TES
Tropospheric Emission Spectrometer

TEST
Thermal Energy Storage Technology

TeV
Tera-Electron Volts

TEVROC
Tailored Exhaust Velocity Rocket

T/F
Time Frequency

TFE
Tropopause Fold Event

TFTR
Toroidal Fusion Test Reactor

TGA
Thermogravimetric Analysis

TGCM
Thermospheric General Circulation Model

TGDDIS
Trace Gas Dynamics Data Information System

TGE
Traverse Gravimeter Experiment

THA
Triaminoguanidinium Hydrazonium Azide

THEP
TOGA (Tropical Ocean Global Atmosphere) Heat Exchange Project

THETN
Trimethylolethanetrinitrate

THIR
Temperature-Humidity Infrared Radiometer

TH-LOC
Terraced Heterostructure Large Optical Cavities

TIARA
Target Illumination And Recovery Aids

TID
Traveling Ionospheric Disturbance

TIDE
Thermal Ion Dynamics Experiment

TIG
Tungsten Inert Gas Welding

TIMED-H/-L
Thermosphere/Ionosphere/Mesosphere Energetics and Dynamics-
inclination High and Low

TIMS
1. Thermal Infrared Mapping Spectrometer
2. Thermal Infrared Multispectral Scanner

T-Invariance
Time Invariance

TIP
1. Thrust Inlet Pressure
2. Tiros Information Processor
3. Transit Improvement Program

TIR
Thermal Infrared

TIROS
Television and Infrared Observation Satellite

TIS
Teacher In Space

TLC
1. Thin Layer Chromatography
2. Translunar Coast

TLD
Thermoluminescent Dosimeter

TLI
Translumbar Injection

TLM
Telemetry

TLRS
Transportable Laser Ranging System

TLV
Threshold Limit Value

TM
1. Telemetry
2. Thematic Mapper (Landsat)
3. Transverse Magnetic-Wave

TMA
1. Technology Mirror Assembly
2. Terminal Area
(British Air Navigation)

TMAE
Tetrakis Dimethylamino Ethylene

TMC
Transmitter Modulation Control

TMI
1. Trans-Mars Injection
2. TRMM Microwave Imager

TMIS
Technical Management and Information System

TML
Total Mass Loss

TMO
Table Mountain Observatory

TMR
Triple Modular Redundancy

TMRT
Mean Radiant Temperature

TMS
Thematic Mapper Simulator

TMT
Transonic Model Tunnel

TMX
Tandem Mirror Experiment

TNT
Trinitrotoluene

TOC
Total Organic Carbon

TOF
Time of Flight

TOGA
Tropical Ocean Global Atmosphere

TOMS
Total Ozone Mapping Spectrometer

TOPCAT
Trajectory Optimization Program for Comparing Advanced Technology

TOPEX

1. Topology Ocean Experiment
2. Topography Experiment
3. Typhoon Operational Experiment

TOPS

1. Thermoelectric Outer Planet Spacecraft
2. Total Ocean Profiling System

TORF
Tethered Orbital Refueling Facility

TORMAK
Toroidal Magnetic Cusp
(Controlled fusion)

TOS
1. Tiros Operational Satellite
2. Transfer Orbit Stage

TOSS
Tiros Operational Satellite System

TOT
Time on Target

TOVS
TIROS Operational Vertical Sounder

TPA
Transponder Performance Analyzer

TPAD
Trunnion Pin Attach Device (Space Shuttle)

TPC theorems:
(T - time inversion operations; P - parity operations; C - charge conjugation operation)

TPCE
Tank Pressure Control Experiment

TPITS
Two Phase Integrated Thermal System

TPM
Technical Performance Measurement

TPS
Thermal Protection System

TQM
Total Quality Management

TR

Skin Temperature

TRACE

1. Task Reporting and Current Evaluation
2. Taxing and Routing of Aircraft Coordinating Equipment
3. Tracking and Communications (Extra terrestrial)

TRACON

1. Terminal Control (Facility)
2. Terminal Radar Approach Control

TRANET

Tracking Network

TRAP

Tape Recorder Action Plan Committee

TRCS

Tactical Radio Communications Systems

TRD

Technology Readiness Date

TREAT

Transient Radar Test Facility

TREE

Transient Radiation Effects on Electronics

TRIS

Trapped Ions in Space (Experiment)

TRM

Thermoremanence Magnetization

TRMM

Tropical Rainfall Measuring Mission

Tmrt

Mean Radiant Temperature

TRP

Two-Step Resonant Photoionization

TRRA
Tilt Rotor Research Aircraft

TRS
Thermal Residue Stress

TRSB
Time Reference Scanning Beam
(Microwave landing system)

TRSS
Teleoperator and Robotic System Simulation

TRT
Transonic Research Tunnel

TRUST
Television Relay Using Small Terminals

TSM
Thermal Scale Model

TSP
Technical Support Package

TSS
Tethered Satellite System

TTC
Telemetry Traffic Control

TTL
Transistor-Transistor Logic

TTN
Tetrathianaphthalene

TTS
Temporary Threshold Shift

TUG
Space Tug

TUTS True Ultimate Tensile Strength

TVA Tennessee Valley Authority

TVC Thrust Vector Control

TVD Total Variation Diminishing

TVOPA 1, 2, 3-tris {or, 8-bis(difluoroamino) ethoxyl} propane

TVOR Terminal (area) Very-High-Frequency Omnidirection Range

TVS Triaxial Vibration Sensor (Space Shuttle)

TWERLE Tropical Wind Energy Conversion and Reference Level Experiment

TWT Traveling Wave Tube

TZM Titanium Zirconium Molybdenum (alloy)

U

UAF

1. Universe Astronautics Foundation
2. University of Alaska-Fairbanks

UARS

Upper Atmosphere Research Satellite

UBV

(Ultraviolet-Blue-Visual in astronomy)

UCD

Urine Collection Device

UDE

Underwater Detection Establishment (Gt. Brit.)

UETA

Unsymmetric Diethyltrianine

UDMH

Unsymmetric Dimethyl Hydrazine

UDOFT

Universal Digital Operational Flight Trainer

UDOP

Ultrahigh Frequency Doppler (tracking system (tracking system))

UFO

Unidentified Flying Object

UGC

Uppsala General Catalog (galaxies)

UHF

Ultra High Frequency

UHTREX

Ultra High Temperature Reactor EXperiment

UIT
Ultraviolet Imaging Telescope
(Shuttle payload)

U.K.
United Kingdom

ULA
Underwater Location Aids

ULC
Unpressurized Logistics Carrier

ULM
Ultrasonic Line Modulator

ULP
Ultra Low Chamber Pressure

ULYSSES
Formerly ISPM (International Solar Polar Mission)

UMTA
Urban Mass Transit Administration

UND
University of National Defense
(Previously ICAF & Nat. War College)

UNDP
U.N. Development Program

UNEP
United Nations Environment Program

UNESCO
United Nations Educational, Scientific and Cultural Organization

UNICODE
Unique Injector Concepts Development

UNISTAR
User Network for Information Storage, Transfer, Acquisition and Retrieval

UQL
Upper Quasihomogeneous Layer

URA
Uniformly Redundant Array

US
Unitary Symmetry

U.S.
United States

USA
United States Army

USAF
United States Air Force

USAFE-T
United States Air Forces in Europe (Turkey)

USCG
U.S. Coast Guard

USDA
United States Department of Agriculture

USE
User Support Environment

USEPPA
Universal System of Units of Industrial Pneumatic Automation

USGCRP
United States Global Change Research Program

USGS
1. Geological Survey, Denver, Colo.
2. Geological Survey, Washington, D. C.

USL
1. Navy Underwater Sound Lab., Fort Trumbull, New London, Conn.
2. United States Laboratory

USML
United States Microgravity Laboratory

USMP
United States Microgravity Payload

USN
United States Navy

USP/ESS
Unmanned Spacecraft Panel's/Environmental Satellite Subpanel

USPO
Urban Systems Project Office

USRA
Universities Space Research Association

USRL
Navy Underwater Sound References Lab., Orlando, Fla.

USS
Unique Support Structure

U.S.S.R.
Union of Soviet Socialist Republics (Now CIS)

UT
Universal Time

UT1
Universal Time System one

UTC
Universal Time Coordinated

UTDF
Universal Tracking Data Format

UTM
Universal Transverse Mercator

UTS
Ultimate Tensile Strength

UTTAS
Utility Tactical Transport Aircraft System

UV
Ultraviolet

UVPI
Ultraviolet Plume Imager

UVR
Ultraviolet Radiation

UVS
Ultraviolet Spectrometer

UVSP
Ultraviolet Spectrometer Polarimeter

UWG
User Working Group

V

VAB
Vehicle Assembly Building (KSC-NASA)
(Also SAB - Satellite (Spacecraft) Assembly Building)

Vac
Volts Alternating Current

VADE
Vandenberg Automatic Data Evaluation

VAFB
Vandenberg Air Force Base

VALT
VTOL Automatic Landing Technology (Program)

VANG 1
Variable Area Nozzle Gas Injection

VAS
1. Variable Angle Scatterometer
2. VISSR Atmospheric Sounder

VAS/CCOPE
Vertical Atmospheric Sounder/Cooperative Convective Precipitation Experiment

VAST
Versatile Avionics Shop Test System

VASI
Visual Approach Slope Indicator

VCD
Vapor-Compression Distillation

VCE
Variable Cycle Engine

VCG
Vapor Crystal Growth

VCO
Voltage Controlled Oscillator

VCR
Video Cassette Recorder

VCS
Voice Controlled System

Vdc
Volts Direct Current

VDOP
Vertical Dilution of Precision

VDT
Video Display Terminal

VER
Vertical Ejection Rack (for bomb ejection)

VERSACOMM
Versatile Contour Measuring Machine

VEU
Very Extreme Ultraviolet

VEUV
Very Extreme Ultraviolet

VFR
Visual Flight Rule

VFT
Visual Function Test in Space

VGH
Velocity Gravity Height

VGRF
Variable Gravity Research Facility

VHBW
Very High Speed Black-and-White (film)

VHF
Very High Frequency

VHOL
Very High Order Language

VHRR
Very High Resolution Radiometer

VHSIC
Very High-Speed Integrated Circuit

Vi
Internal Velocity

VICAR
Video Image Communication and Retrieval

VICI
Velocity Indicating Coherent Integrator Electronic Countermeasure

VIM
Visual Inspection Module

VIMS
Visible and Infrared Mapping Spectrometer

VIPOR
Visual Investigation Program on Orbiter Operations

VIR
Visible Infrared Radar

VIRGS
VISSR Image Registration and Gridding System

VISSR
Visible Infrared Spin-Scan Radiometer (GOES B and C)

VIS/UV
Visual/Ultraviolet

VLA
Very Large Array

VLBI
Very Long Baseline Interferometry

VLF
Very Low Frequency

VLIW
Very Long Instruction Word

VLS
Vandenberg Launch and Landing Site

VLSI
Very Large Scale Integration

VLSIC
Very Large Scale Integrated Circuit

VM
Virtual Memory

VMD
Vertical Magnetic Dipole

VNAV
Vertical Navigation

VNIR
Visible Near Infrared

VOIR
Venus-Orbiting Imaging Radar

VOR
1. Very High Frequency Omnidirectional Range

VOR/DME
Very-High-Frequency Omnidirectional Range/Distance Measuring Equipment

VOX
Voice-Operated Transmission

VPA
Variable Power Amplifier

VPPA
Variable Polarity Plasma Arc

VRCS
Vernier Reaction Control System (jet)

VRM
1. Venus Radar Mapper
2. Viscous Remanence Magnetization

VRV
Visual Range Visibility

VSA
Vibrating String Accelerometer

VSB
Vestigial Sideband

VSI
Velocity and Steering Indicator

VSOP
VLBI Space Observatory Program

V/STOL
Vertical/Short Takeoff and Landing

VSWR
Voltage Standing Wave Ratio

VTF
Valve Testing Facility (for HTAH for magnetohydrodynamics power plants)

VTOL
Vertical Takeoff and Landing

VTPR
Vertical Temperature Profile Radiometer

VCR
Video Tape Recorder

WXYZ

W

Watt

WAL

Watertown Arsenal Lab., Mass.

WAMDII

Wide Angle Michelson Doppler Imaging Interferometer

WAN

Wide Area Networks

WARC

World Administrative Radio Conference

WARHUD

Wide Angle Raster Head Up Display

WBS

Work Breakdown Structure

WBT

Wet Bulb Temperature

WBG

Wet Bulb Globe Temperature

WBS

Work Breakdown Structure

WBVTR

Wide Band Video Tape Recorder

WD

Wet/Dry Index

WESRAC

Western Research Applications Center

WESTAR

Western Union Telegraph Communication Satellite

WFF
Wallops (Island) Flight Facility

WGH
Womack General Hospital, Fort Bragg, N. C.

WIMPs
Weakly Interactive Massive Particles

WIND
Interplanetary Space Physics Mission

WINDEX
Window Experiment

WINE
Winter In Northern Europe
(MAP-Middle Atmosphere Program)

WISP
Waves in Space Plasma

WITS
Worldwide Ionosphere-Thermosphere Study

WKB
Wentzell Krammers Brillouin Approximation

WLC
White Light Coronagraph

WMO
World Meteorological Organization

WMS
Waste Management System

WOCE
World Ocean Circulation Experiment

WORM
Write Once Read Memory

WOSE
Weather Officer in Space Experiment

WP
Work Package

WRAIR
Walter Reed Army Inst. of Research, Washington, D. C.

WRAP
Weapons Readiness Achievement Program

WRS
Waste Removal System

WS
Workstation

WSEG
Weapons Systems Evaluation Group, Dept. of Defense, Washington, D. C.

WSF
Wake Shield Facility

WSGT
White Sands Ground Terminal

WSMR
White Sands Missile Range, N. Mex.

WSTF
White Sands Test Facility

WTR
Western Test Range

WVR
Water Vapor Radiometer

WVT
Watervliet Arsenal, New York

WWW
World Weather Watch

X-SAR
X-Band Synthetic Aperture Radar

XBT
Expandable Bathythermography

XCP
Expandable Current Profiler

XPS
X-ray Photoelectron Spectroscopy

XRF
X-Ray Fluorescence

XRFS
X-Ray Fluorescence Spectroscopy

XSS
Experimental Space Station
(Orbiting Work Shop)

XTE
X-Ray Timing Explorer

XUV
X-ray Ultraviolet

XXI
XUV/X-Ray Imager (Orbiting Solar Laboratory)

YAG
Yttrium-Aluminum Garnet Crystal

YIG
Yttrium-Iron Garnet Crystal

YSO
Young Stellar Objects

YTS
Yuma Test Station, Ariz.

Z

(Ultra heavy nuclei)

ZAMS

Zero Age Main Sequence Stars

ZPR

Zero Power Reactor

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