

IPAO Acronyms

| | |
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| AA | Associate Administrator |
| AA/SMD | Associate Administrator for the Science Mission Directorate |
| AAA | Assistant Associate Administrator |
| AAA | Avionics Air Assembly |
| ACE | Attitude Control Electronics |
| ACEIT | Automated Cost Estimating Integrated Tools |
| ACS | Attitude Control System |
| ADCS | Attitude Determination and Control Subsystems |
| ADCS | Attitude Determination Control System |
| ADD | Architectural Description Document |
| AETD | Applied Engineering and Technology Directorate |
| AF | Air Force |
| AGE | Aerospace Ground Equipment |
| AI&T | Assembly, Integration and Test |
| AIAA | American Institute Of Aeronautics and Astronautics |
| AIRS | Atmospheric Infrared Sounder |
| AIT | Assembly, Integration and Test |
| AMSR-E | Advanced Microwave Scanning Radiometer - Earth Observing System |
| AO | Administrative Officer |
| AO | Announcement of Opportunity |
| AoA | Analysis of Alternative |
| AOCS | Attitude and Orbit Control System |
| APA | Allowance for Program Adjustment |
| APL | Applied Physics Laboratory |
| APMC | Agency Program Management Council |
| ARB | Anomaly Review Board |
| ARC | Ames Research Center |
| ARR | Assembly Readiness Review |
| ARR | Assembly, Test, and Launch Operations Readiness Review |
| ARR | ATLO Readiness Review |
| ARRA | American Recovery and Reinvestment Act |
| ART | Anomaly Response Team |
| ASEM | American Society of Engineering Management |
| ASIC | Application Specific Integrated Circuit |
| ASM | Acquisition Strategy Meeting |
| ASTER | Advanced Spaceborne Thermal Emission and Reflection |
| ATK | Alliant Techsystems Inc. |
| ATLO | Assembly, Test, and Launch Operations |
| ATU | ATLO Test Unit |
| AU | Astronomical Unit |
| AVS | Angular Velocity Sensor |
| AWACS | Airborne Warning and Control System |
| AZ | Arizona |
| BAC | Budget at Completion |

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|---------|---|
| BAE | The combination of British Aerospace and Marconi Electronic Systems |
| BARREL | Balloon Array for Radiation-belt Relativistic Electron Losses |
| BATC | Ball Aerospace and Technologies Corporation |
| BCD | Budget Change Directives |
| BHP | Behavioral Health and Performance |
| BMCC | Boeing Mission Control Center |
| BMP | Baseline Management Plan |
| BOE | Basis of Estimate |
| BOE | Basis of Estimation |
| BOSS | Business Operating Success Strategies |
| BS | Bachelor of Science |
| BSS | Boeing Satellite Systems |
| BUD | Bridle umbilical device |
| BUR | Bottom Up Review |
| C&DH | Command and Data Handling |
| CA | Control Account |
| CA | Convening Authority |
| CA | Cooperative Agreement |
| CA | Cost Analyst |
| CAC | Coleman Aerospace Company |
| CAD | Cost Analysis Division |
| CADRe | Cost Analysis Data Requirement |
| CAG | Cost Analysis Group |
| CAI | Communications, Avionics & Informatics |
| CAIG | Cost Analysis Improvement Group |
| CAIL | CEV Avionics Integration Laboratory |
| CALIPSO | Cloud-Aerosol Lidar & Infrared Pathfinder Satellite Observations |
| CAM | Control Account Manager |
| CAM | Cost Account Manager |
| CB | Astronaut Office |
| CBE | Current Baseline Estimate |
| C-C | Carbon-Carbon |
| CCB | Change Control Board |
| CCD | Charge-Coupled Device |
| CCMI | Conference Center at the Maritime Institute |
| CD | Center Director |
| CDF | Cumulative Distribution Function |
| CDPB | Command and Data Handling – Power Control Electronics |
| CDR | Critical Design Review |
| CEO | Chief Executive Officer |
| CER | Cost Estimating Relationship |
| CER | Cost Estimating Relationships |
| CERR | Critical Event Readiness Review |
| CEV | Crew Exploration Vehicle |
| CFDP | CCSDS File Delivery Protocol |
| CHIRMA | Collection and Handling for In-Situ Martian Rock Analysis |

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|---------|--|
| CI | Cost Issues |
| CID | Current Interrupt Device |
| CL | Confidence Level |
| CLSRB | Current Launch Schedule Review Board |
| CLV | Crew Launch Vehicle |
| CM | Configuration Management |
| CM&O | Center's Management and Operations |
| CMC | Center Management Council |
| CME | Cell Management Electronics |
| CMIC | C&DH Module Interface Card |
| CO | Contracting Officer |
| COBE | Cosmic Background Explorer |
| Code TI | Intelligent Systems Division |
| CoDR | Concept Decision Review |
| CoFR | Certificate of Flight Readiness |
| CoFR | Certification of Flight Readiness |
| Co-I | Co-Investigator |
| COI | Conflict of Interest |
| COLA | Collision Avoidance |
| Comm | Communications |
| COMSEC | Communications Security |
| CONAE | Comisión Nacional de Actividades Espaciales |
| CONOPS | Concept of Operations |
| COPV | Composite Overwrapped Pressure Vessel |
| COROT | CONvection ROTation and planetary Transits |
| COTS | Commercial Off-the-Shelf |
| COTS | Commercial Orbital Transportation Services |
| CPA | Critical Path Assessment |
| CPAM | Cabin Pressure Acquisition Module |
| CPCB | CEV Project Control Board |
| CPHS | Committee for the Protection of Human Subjects |
| CPI | Cost Performance Index |
| CPS | configurator programming system |
| CPT | Comprehensive Performance Test |
| CPU | Central Processing Unit |
| CRM | Continuous Risk Management |
| CRS | Cargo Resupply Services |
| CS | Civil Servant |
| CS | Conducted Susceptibility |
| CSCI | Computer Software Configuration Item |
| CSIP | Cx System Integration Panel |
| CSO | Chief S&MA Officer |
| CSR | Crew Station Review |
| CSSS | Constellation Space Suit System |
| CTC | Cost to Complete |
| CTCU | Central Telemetry & Command Unit |

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|----------|---|
| CTD | Command & Telemetry Database |
| CTFS | Common Time and Frequency System |
| Cx | Constellation |
| CxP | Constellation Program |
| CY | Calendar Year |
| CY | Contract Year |
| DA | Decision Authority |
| DAC | Design Architecture Cycle |
| DAEP | DSN (Deep Space Network) Aperture Enhancement Project |
| DARPA | Defense Advanced Research Projects Agency |
| DAS | Demand Access Service |
| DAU | Defense Acquisition University |
| DAWG | Data Analysis Working Group |
| DC/DC | Direct Current/Direct Current |
| DCA | Debris Casualty Area |
| DCE | Dust Cover Eject |
| DCM | DV Clean-up Maneuvers |
| DCMA | Defense Contract Management Agency |
| DCS | Data Collection System |
| DD | Division Director |
| DD | Division Directorate |
| DDT&E | Design, Development, Testing & Evaluation |
| DFI | Developmental Flight Instrumentation |
| DFMR | Design For Minimum Risk |
| DFRC | Dryden Flight Research Center |
| DGA | Designated Governing Authority |
| DIL | Deliverable Items List |
| DIRWA | Demisable Integrated Reaction Wheel Assembly |
| DM | Data Management |
| DMC | Data Management Center |
| DMCA-MLE | Descent Motor Control Assembly-Mars Landing Engine |
| DMSP | Defense Meteorological Satellite Program |
| DoD | Department of Defense |
| DOE | Department of Energy |
| DOORS | Dynamic Object Oriented Requirements System (Requirements Data Base Tool) |
| DOY | Day of Year |
| DP | Data Processing |
| DP | Design Principles |
| DPAM-RCS | Descent Stage Power and Analog Module-Reaction Control System |
| DPAS | Defense Priorities & Allocations System |
| DPFR | Development Problem Failure Report |
| DPM | Discovery Program Manager |
| DPMC | Directorate Program Management Council |
| DPO | Discovery Program Office |
| DPR | Dual-Frequency Precipitation Radar |

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|---------|---|
| DR | Decommissioning Review |
| DRC | Design Reference Case |
| DSAB | Defense Space Acquisition Board |
| DSIL | Distributed System Integrated Laboratory |
| DSN | Deep Space Network |
| DSR | Director Status Review |
| DTCI | Data, Telemetry and Command Interface |
| DTE | Driven to Explore |
| DVT | Design Verification Test |
| DXA | Dual Energy X-ray Absorptometry |
| E/PO | Education and Public Outreach |
| EA | Engineering Analysis |
| EAC | Estimate at Completion |
| EAG | Evaluation and Assessment Group |
| EARD | Exploration Architecture Requirements Document |
| ECD | Expected Completion Date |
| ECLSS | Environmental Control and Life Support System |
| ECN | Engineering Change Notice |
| ECR | Engineering Change Request |
| ECS | Environmental Control System |
| ECT | Energetic Particle, Composition, and Thermal Plasma |
| ED | Estimated Date |
| EDD | Early Definition Document |
| EDU | Engineering Development Unit |
| EEE | Electrical, Electronic, and Electromechanical |
| EELV | Evolved Expendable Launch Vehicle |
| EEPROM | Electrically Erasable Programmable Read-Only Memory |
| EFB | Earth Flyby |
| EFW | Electric Field and Waves |
| EGSE | Electrical Ground Support Equipment |
| EIRP | Effective Isotropic Radiated Power |
| ELV | Expendable Launch Vehicle |
| ELVIS | Expendable Launch Vehicle Integrated Support |
| EM | Engineering Mode |
| EM | Engineering Model |
| EMC | Electromagnetic Compatibility |
| EMC | Emergency Mode Controller |
| EMFISIS | Electric and Magnetic Field Instrument Suite and Integrated Science |
| EM-FM | Engineer Mode-Flight Mode |
| EMI | Electromagnetic Interface |
| EMI | Electromagnetic Interference |
| EMU | Engineering Model Unit |
| EMU | Extravehicular Mobility Unit |
| EO | Earth Orbiter |
| EO-1 | Earth Orbit-1 |
| EOL | End of Life |

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|-------|---|
| EOM | End of Mission |
| EOS | Earth Observing System |
| EP | Equivalent Personnel |
| EPA | Environmental Protection Agency |
| EPO | Education and Public Outreach |
| EPR | Engineering Peer Review |
| EPS | Electric Power System |
| EPS | Electrical Power Subsystem |
| EPSP | EVA Physiology, Systems and Performance Project |
| ERB | Engineering Review Board |
| ERD | Environmental Requirements Document |
| ESA | European Space Agency |
| ESAS | Exploration Systems Architecture Study |
| ESC | Electronic System Center |
| ESD | Earth Science Division |
| ESD | Electrostatic Discharge |
| ESM | Earth Systematic Missions |
| ESMD | Earth Science Mission Directorate |
| ESMD | Exploration Systems Mission Directorate |
| ESMP | Earth Systematic Missions Program |
| ESPD | Earth Science Projects Division |
| ESPO | Earth Science Program Office |
| ESPO | EVA Systems Project Office |
| ESR | EVA System Reference |
| ESSP | Earth Science System Pathfinder |
| ETC | Estimate to Complete |
| ETE | End-to-End |
| ETEM | Environmental Transmission Electron Microscopy |
| ETU | Engineering Test Unit |
| EV | Earned Value |
| EVA | Extravehicular Activity |
| EVM | Earned Value Management |
| EVMS | Earned Value Management System |
| EXCOM | Executive Committee |
| ExEP | Exoplanet Exploration Program |
| ExEPO | Exoplanet Exploration Program Office |
| ExMC | Exploration Medical Capability |
| F/A | Failure Analysis |
| F2F | Face-To-Face |
| FACA | Federal Advisory Committee Act |
| FACT | Flight Analysis Configuration To |
| FAD | Formulation Authorization Document |
| FAR | Federal Acquisition Regulation |
| FAYT | FAYT |
| FCE | Flight Crew Equipment |
| FCR | Fault Containment Region |

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|-------|--|
| FDD | Flight Director Display |
| FFF | Form Fit and Function |
| FFI | Full Frame Image |
| FFP | Firm Fixed Price |
| FGM | Fluxgate Magnetometer |
| FGS | Fine Guidance System |
| FHW | Flight Hardware |
| FIRST | For Inspiration and Recognition of Science and Technology |
| FM | Flight Mode |
| FMEA | Failure Modes and Effects Analysis |
| FMECA | Failure Mode, Effects and Criticality Analysis |
| FO | Flight Operations |
| FOM | Figure of Merit |
| FOP | Follow-up Observing Program |
| FOR | Flight Operations Review |
| FOS | Faint Object Spectrograph |
| FOV | Field of View |
| FP/RM | Fault Protection / Redundancy Management |
| FPA | Focal Plane Array |
| FPB | Flight Planning Board |
| FPC | Flight Planning Center |
| FPGA | Field Programmable Gate Array |
| FPO | Flight Projects Office |
| FRR | Flight Readiness Review |
| FS | Flight Segment |
| FSG | Fine Guidance Sensor |
| FSR | Funded Schedule Reserve |
| FSW | Flight Software |
| FT | Fault Tolerance |
| FTA | Flight Test Article |
| FTE | Full-Time Equivalent |
| FY | Fiscal Year |
| G | Green |
| G&C | Guidance and Control |
| GALEX | Galaxy Evolution Explorer |
| GAO | Government Accountability Office |
| GCP | Ground Control Point |
| GCR | Galactic Cosmic Rays |
| GD | General Dynamics |
| GDC4S | General Dynamics C4S |
| GDDR | Ground Detailed Design Review |
| GDS | Ground Data System |
| GEMS | Global Earth-System Monitoring with Satellite and In-Situ Data |
| GFE | Government-Furnished Equipment |
| GFY | Government Fiscal Year |
| GHz | Giga Hertz |

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|--------|--|
| GLAST | Gamma-Ray Large Area Space Telescope |
| GMI | GPM Microwave Imager |
| GN&C | Guidance, Navigation and Control |
| GO | Ground Operations |
| GO | Guest Observer |
| GOES | Geostationary Orbital Environmental Satellite |
| GOES-R | Geostationary Operational Environmental Satellite-R Series |
| GOLD | Goddard Open Learning Design |
| GOLF | Gravity Offload Fixture |
| GP | Gravity Probe |
| GPB | Gravity Probe B |
| GPDR | Ground Peer Design Review |
| GPM | Global Precipitation Measurement |
| GPMC | Governing Program Management Council |
| GPMP | Global Precipitation Measurement Project |
| GPR | Goddard Procedural Requirement |
| GPS | Global Positioning System |
| GRACE | Gravity Recovery and Climate Expedition |
| GRACE | Gravity Recovery and Climate Experiment |
| GRAIL | Gravity Recovery And Interior Laboratory |
| GRC | Glenn Research Center |
| GRIP | Gravity Recovery Instrument for Planets |
| GRMS | Goddard RFA Management System |
| GRST | Gamma-Ray Large Area Space Telescope |
| GS | General Schedule |
| GS | Ground Segment |
| GS | Ground System |
| GSE | Ground Support Equipment |
| GSFC | Goddard Space Flight Center |
| GSIT | Ground Segment Integration Test |
| GSM | Ground Segment Manager |
| GSRD | Ground Segment Requirement Document |
| GSW | Ground System Software |
| H/W | Hardware |
| HEOMD | Human Exploration Operations Mission Directorate |
| HGA | High-Gain Antenna |
| HHC | Human Health and Countermeasure |
| HIRU | Hemispherical Inertial Reference Unit |
| HLR | Human Lunar Return |
| HMD | Hardware Maintenance Depot |
| HMI | Human Machine Interface |
| HOPE | Human Outer Planet Exploration |
| HOWI | Headquarters Office Work Instructions |
| HPCA | Hot Plasma Composition Analyzer |
| HQ | Headquarters |
| HRP | Human Research Program |

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|---------|--|
| HSC | High Sensitivity Camera |
| HSIR | Human Systems Integration Requirements |
| HST | Hubble Space Telescope |
| HST-SM4 | High Speed Transport-Service Mission 4 |
| HW | Hardware |
| HZ | Habitable Zone |
| HZE | High-energy and High-charge Ions |
| I&T | Integration and Test |
| I&T | Integration and Testing |
| IA&T | Integration, Assembly and Test |
| IBR | Integrated Baseline Review |
| IC | Initial Capability |
| ICA | Independent Cost Analysis |
| ICA | Independent Cost Assessment |
| ICBM | Intercontinental Ballistic Missile |
| ICD | Interface Control Document |
| ICE | Independent Cost Estimate |
| ID | Identification |
| ID/IQ | Indefinite Delivery/Indefinite Quantity |
| IEEE | Institute of Electrical and Electronics Engineers |
| IESD | Internal Electrostatic Discharge |
| IFS | Integrated Flight Schedule |
| IGA | Intergovernmental Agreement |
| ILCR | Independent Life-cycle Review |
| ILN | International Lunar Network |
| ILT | Interlaminar Tensile |
| IMAGE | Imager for Magnetopause-to-Aurora Global Exploration |
| IMIR | Individual Member Independent Recommendation |
| IMIR | Individual Member Independent Report |
| IMM | Integrated Medical Model |
| IMP | Integrated Master Plan |
| IMS | Integrated Management System |
| IMS | Integrated Master Schedule |
| INPE | Instituto Nacional de Pesquisas Espaciais |
| INVAP | Investigaciones Aplicadas |
| IOC | Initial Operational Capability |
| IOC | Initial Operations Checkout |
| IOC | In-Orbit Checkout |
| IOP | Internal Operational Plan |
| IOT | Instrument Operations Team |
| IP | International Partners |
| IPA | Independent Program Analysis |
| IPA | Independent Program Assessment |
| IPA | Independent Programmatic Analysis |
| IPA | Independent Programmatic Assessment |
| IPAC | Infrared Processing and Analysis Center |

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|---------|--|
| IPAO | Independent Program Assessment Office |
| IPCE | Independent Program and Cost Evaluation |
| IPO | Integrated Program Office |
| IPR | Integrated Program Review |
| IPSR | Instrument Pre-Shipment Review |
| IPT | Integrated Product Team |
| IR | Infrared |
| IRAS | Infrared Astronomical Satellite |
| IRAS | Inter-Spacecraft Ranging and Alarm System |
| IRD | Information Requirements Document |
| IRD | Interface Requirements Document |
| IRIS | Interface Region Imaging Spectrograph (spacecraft) |
| IRMA | Integrated Risk Management Application |
| IRN | Interface Revision Notice |
| IRP | Integrated Research Plan |
| IRT | Independent Review Team |
| IS | Instrument Suite |
| ISA | Incident, Surprise, Anomaly |
| ISA | Integrated Schedule Assessment |
| ISE | Independent Schedule Estimate |
| ISPA | International Society of Parametric Analysts |
| ISS | International Space Station |
| ISSMP | International Space Station Medical Project |
| ISUA | Independent Schedule Uncertainty Analysis |
| IT | Information Technology |
| ITA | Independent Technical Authority |
| ITAR | International Traffic in Arms Regulations |
| ITL | Incompressible Test List |
| ITL | Integrated Test List |
| ITSP | Ionosphere-Thermosphere Storm Probes |
| IV | Intravehicular |
| IVA | Intra-Vehicular Activity |
| JACS | Joint Analysis Cost and Schedule |
| JADE | Jovian Auroral Distribution Experiment |
| JASD | Joint Agency Satellite Division |
| JAXA | Japanese Aerospace and Exploration Agency |
| JAXA | Japanese Aerospace Exploration Agency |
| JCL | Joint Confidence Level |
| JEDI | Jupiter Energetic Particle Detector Instrument |
| JHU | Johns Hopkins University |
| JHU/APL | Johns Hopkins University/ Applied Physics Laboratory |
| JIRAM | Jovian Infrared Auroral Mapper |
| JOI | Jupiter Orbit Insertion |
| JPL | Jet Propulsion Laboratory |
| JPO | Joint Program Office |
| JPOR | Joint Program Office Review |

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|---------|--|
| JPOR | Joint Program Office Review |
| JRD | Joint Requirements Document |
| JSC | Johnson Space Center |
| JSIP | Joint Surveillance Imagery Program |
| Juno | NASA's New Frontiers Mission to Jupiter |
| JWST | James Webb Space Telescope |
| K | Thousand |
| KAR | Kepler Anomaly Report |
| KARF | Kepler Activity Request Form |
| KaT | Ka-Band Translator |
| KCB | Kepler Control Box |
| KCB | Kepler Control Box |
| KDP | Key Decision Point |
| KI | Keck Interferometer |
| KI | Keck Interferometer |
| KOA | Keck Observatory Archive |
| KSAS | Kepler Science Analysis System |
| KSC | Kennedy Space Center |
| KSC | Kepler Science Council |
| L | Launch |
| L&L | Launch and Landing |
| L1 | Level One |
| L3 | Level Three |
| LADEE | Lunar Atmosphere and Dust Environment Explorer |
| LAM | Liquid Apogee Motor |
| LaRC | Langley Research Center |
| LAS | Launch Abort System |
| LASP | Laboratory for Atmospheric and Space Physics |
| LBB | Leak Before Burst |
| LC | Launch Campaign |
| LCC | Life-Cycle Cost |
| LCCE | Life-Cycle Cost Estimate |
| LCCR | Lunar Capabilities Concept Review |
| LCR | Life Cycle Review |
| LCRD | Laser Communications Relay Demonstration |
| LCSG | Launch Collaboration Steering Group |
| LDCM | Landsat Data Continuity Mission |
| LDE | Local Detector Electronics |
| LEA/0-G | Launch, Entry, and Abort /0 Gravity |
| LEM | Lunar Exploration Module |
| LEO | Low Earth Orbit |
| LIDAR | Light Detection and Ranging Instrument |
| LILL | Limited Life Items List |
| LIO | Low-Inclination Observatory |
| LISA | Laser Interferometer Space Antenna |
| LLCD | Lunar Laser Communications Demonstration |

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|--------|---|
| LM | Lockheed Martin |
| LM | Lunar Mission |
| LM | Lunar Mission |
| LMA | Lockheed Martin Astronautics |
| LMSO | Lockheed Martin Space Operations |
| LNA | Low Noise Amplifier |
| LOA | Letter of Agreement |
| LOC | Loss of Crew |
| LOE | Level of Effort |
| LOI | Lunar Orbit Insertion |
| LOM | Loss of Mission |
| LOOS | Launch Operations and Orbital Support |
| LPHTA | Low-Power High Torque Actuator |
| LRD | Launch Readiness Date |
| LRO | Lunar Reconnaissance Orbiter |
| LRR | Launch Readiness Review |
| LRR | Launch Readiness Review |
| LS | Launch Services |
| LSAH | Longitudinal Study of Astronaut Health |
| LSAM | Lunar Surface Access Module |
| LSC | Launch Services Contractor |
| LSDA | Life Sciences Data Archive |
| LSP | Launch Service Provider |
| LSP | Launch Services Program |
| LSS | Lunar Surface System |
| LUF | Load Uncertainty Factor |
| LV | Launch Vehicle |
| LVPS | Low-Voltage Power Supply |
| LVERR | Launch Vehicle Readiness Review |
| LWS | Living With a Star |
| M&O | Maintenance & Operations |
| M.S. | Master of Science |
| MA | Mission Assurance |
| MA | Multiple Access |
| MABE | Multiple Access Beamforming Equipment |
| MAF | Mission Assurance Forum |
| MAG | Magnetometer |
| MagEIS | Magnetic Electron Ion Spectrometer |
| MAM | Mission Assurance Manager |
| MAP | Microwave Anisotropy Probe |
| MAR | Mission Assurance Requirements |
| MAR | Multiple Access Return |
| MAST | Multimission Archive at Space Telescope |
| MC | Management Council |
| MCO | Mars Climate Orbiter |
| MCR | Mission Concept Review |

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| MCR | Mission Confirmation Review |
| MD | Maryland |
| MD | Mission Directorate |
| MDAA | Mission Directorate Associate Administrator |
| MDPMC | Mission Directorate Program Management Council |
| MDR | Mission Definition Review |
| ME | Mechanical Engineer |
| MEB | Main Electronics Box |
| MEC | Main Engine Cover |
| MEP | Mars Exploration Program |
| MER | Mars Exploration Rover |
| MESSENGER | Mercury Surface, Space Environment, Geochemistry and Ranging |
| MFS | Microgravity Flight Services |
| Mgmt | Management |
| MGS | Mars Global Surveyor mission |
| MGSE | Mechanical Ground Support Equipment |
| MICD | Mechanical Interface Control Documents |
| MIDEX | Medium-Class Explorers |
| MIHCS | Medical Informatics and Healthcare Systems |
| MILSATCOM | Military Satellite Communications |
| MIRAGE | Map Image Rendering Database for GEoscience |
| MISR | Multiangle Imaging Spectro-Radiometer |
| MIT | Massachusetts Institute of Technology |
| MIVP | Master Integration and Verification Plan |
| MLT | Mean Local Time |
| MM | Mass Memory |
| MM | Mission Manager |
| MMO | Mission Management Office |
| MMOD | Micro Meteoroid Orbital Debris |
| MMRTG | Multi-Mission Radioisotope Thermoelectric Generator |
| MMS | Magnetospheric MultiScale |
| MMS | Multi-Mission Spacecraft |
| MoA | Memorandum of Agreement |
| MOC | Mission Operations Center |
| MOE | Measure of Effectiveness |
| MoO | Missions of Opportunity |
| MOP | Measure of Performance |
| MOR | Mission Objective Requests |
| MOR | Mission Operations Report |
| MOR | Mission Operations Review |
| MOS | Minimum Operable Segment |
| MosFet | Metal Oxide Semiconductor Field Effect Transistor |
| MOU | Memorandum Of Understanding |
| MPO | Mars Program Office |
| MPR | Monthly Program Review |
| MR | Management Reserve |

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|--------|--|
| MRB | Mission Readiness Briefing |
| MRO | Mars Reconnaissance Orbiter |
| MS | Mission Support |
| MSAP | Multi-Mission System Architectural Platform |
| MSC | Manned Spacecraft Center |
| MSFC | Marshall Space Flight Center |
| MSL | Mars Science Laboratory |
| MSO | Mission Support Office |
| MSR | Mission Support Room |
| MSR | Monthly Status Review |
| MST | Mission Scenario Test |
| MTBF | Mean Time Between Failure |
| MTR | Management Transition Review |
| MVM | Manufacturing Verification Model |
| MWR | Microwave Radiometer |
| N/A | Not Applicable |
| NAC | National Advisory Committee |
| NACA | National Advisory Committee for Aeronautics |
| NAFCOM | NASA/Air Force Cost Model |
| NAR | Non-Advocate Review |
| NASA | National Aeronautics and Space Administration |
| NASCA | NASA Study of Cataract in Astronauts |
| NASCAR | National Association For Stock Car Auto Racing |
| NAV | Navigation |
| NC | Non-Consensus Mixed Board |
| NCG | Noncondensable Gasses |
| NCR | Non Conformance Reports |
| NEN | NASA Engineering Network |
| NEPA | National Environmental Policy Act |
| NESC | NASA Engineering and Safety Center |
| NExSci | NASA Exoplanet Science Institute |
| NFP | New Frontiers program |
| NGO | Needs, Goals, Objectives |
| NIC | Network Interface Controller |
| NICM | NASA Instrument Cost Model |
| NID | NASA Interim Directive |
| NIH | National Institutes of Health |
| NIRCam | Near Infrared Camera |
| NIRST | New Infrared Sensor Technology |
| NISN | NASA Integrated Service Network |
| NLS | NASA Launch Services |
| NLS-B | NASA Launch Services - Boeing |
| NLS-L | NASA Launch Services – Lockheed |
| NLS-O | NASA Launch Services - Orbital |
| NLS-S | NASA Launch Services – SpaceX Corporation |
| NMP | New Millennium Program |

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|---------|--|
| NMSU | New Mexico State University |
| NOA | New Obligation Authority |
| NOAA | National Oceanic and Atmospheric Administration |
| NPD | NASA Policy Directive |
| NPOESS | National Polar-orbiting Operational Environmental Satellite System |
| NPP | NPOESS Preparatory Project |
| NPR | NASA Procedural Requirement |
| NRA | NASA Research Announcement |
| NRAO | National Radio Astronomy Observatory |
| NRC | National Research Council |
| NRE | Non-Recurring Engineering |
| NRO | National Reconnaissance Group |
| NS | Network Services |
| NSA | National Security Agency |
| NSBRI | National Space Biomedical Research Institute |
| NSC | NASA Safety Center |
| NSF | NASA Science Foundation |
| NSSC | NASA Shared Services Center |
| NStED | NASA/IPAC/NExSci Star Archive and Exoplanet Database |
| NuSTAR | Nuclear Spectroscopic Telescope Array |
| O&M | Operations and Maintenance |
| OA | Orbit and Attitude |
| OA0-C | Orbiting Astronomical Observatory |
| OCE | Office of Chief Engineer |
| OCE | Office of the Chief Engineer |
| OCFO | Office of Chief Financial Officer |
| OCHMO | Office of the Chief Health and Medical Officer |
| OCI | Organizational Conflict of Interest |
| OCI/PCI | Organizational Conflict of Interest/Personal Conflict of Interest |
| OCIO | Office of Chief Information Officer |
| OCO | Orbiting Carbon Observatory |
| OCT | Office of the Chief Technologist |
| ODC | Other Direct Cost |
| OICD | Operations Interface Control Document |
| OLI | Operational Land Imager |
| OLV | Operational Launch Vehicle |
| OMB | Office of Management and Budget |
| OOAR | On-Orbit Acceptance |
| Ops | Operations |
| Ops | Operations |
| ORA | Optical Research Associates |
| ORR | Operational Readiness Review |
| ORSAT | Object Reentry Survival Analysis Tool |
| ORT | Operational Readiness Test |
| OSHA | Occupational Safety and Health Administration |
| OSMA | Office of Safety & Mission Assurance |

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| OSO | Office of Space Operations |
| OSO | Orbiting Solar Observatory |
| OSTM | Ocean Surface Topography Mission |
| OTB | Over-Target Baseline |
| OTM | Orbit Trim Maneuvers |
| OTS | Over-Target Schedule |
| P | Primary |
| P/FR | Problem/Failure Report |
| P/p | Program/project |
| P/SDR | Program System Definition Review |
| P/SRR | Program System Requirements Review |
| PA&E | Office of Program Analysis and Evaluation |
| PA&E | Program Analysis and Evaluation |
| PAF | Payload Attach Fitting |
| PAG | Program Analysis Group |
| PAM | Payload Assist Module |
| PAR | Program Approval Review |
| PATRIOT | Phased Array Tracking Radar to Intercept of Target |
| PB | Presidential Budget |
| PBMA | Process Based Mission Assurance |
| PBS | Product Breakdown Structure |
| PCA | Project Commitment Agreement |
| PCA | Project Communication Agreement |
| PCI | Personal Conflict of Interest |
| pcu | Practical Salinity Unit |
| PDDU | Power Distribution Driver Unit |
| PDF | Probability Distribution/Density Functions |
| PDR | Preliminary Design Review |
| PDT | Procurement Development Team |
| PDU | Power Distribution Unit |
| PE | Program Executive |
| PER | Pre-Environmental Review |
| PER | Pre-Environmental Testing Review |
| PFAR | Post-Flight Assessment Review |
| PFM | Proto Flight Model |
| PFR | Problem Failure Report |
| PH | Propulsion Harness |
| PhD | Doctor of Philosophy |
| PI | Principal Investigator |
| PIMS | Program Integrated Master Schedule |
| PIMS | Project Information Management System |
| PIR | Program Implementation Review |
| PLAR | Post-Launch Assessment Review |
| PLN | Plan |
| PLR | Project Level Review |
| PLRA | Program Level Requirements Agreement |

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| PLRA | Program Level Requirements Appendix |
| PLSS | Portable Life Support Subsystem |
| PM | Program Manager |
| PM | Project Management |
| PM | Project Manager |
| PMB | Performance Measurement Baseline |
| PMC | Project Management Council |
| PMD | Propellant Management Device |
| PMI | Project Management Institute |
| PMP | Project Management Professional |
| PMR | Program Management Review |
| PMR | Program Managers Recommend |
| PMT/SE/QA | Program Management/Systems Engineering/Quality Assurance |
| PNAR | Preliminary Non-Advocate Review |
| PNT | Positioning, Navigation, and Timing |
| POC | Point of Contact |
| POD | Point of Departure |
| POE | Project Office Estimate |
| POI | Pixels of Interest |
| POP | Program Operating Plan |
| POR | Power On Reset |
| PP&C | Program Planning & Control |
| PPAR | Preliminary Program Approval Review |
| PPB | Program Planning Budget |
| PPBE | Planning, Programming, Budgeting, and Execution |
| PPS | Precipitation Processing System |
| PPSG | Plans and Policy Steering Group |
| PRA | Probabilistic Risk Analysis |
| PRA | Probabilistic Risk Assessment |
| PRCB | Program Requirements Change Board |
| PRIO | Power Remote Input Output |
| PRLS | Probabilistic Resource Loaded Schedule |
| PRM | Period Reduction Maneuvers |
| PROM | Programmable Read-Only Memory |
| PRR | Production Readiness Review |
| PS | Planning and Scheduling |
| PSAB | PEO Space Acquisition Board |
| PSBR | Proton Spectrometer Belt Research |
| PSC | Policy and Strategic Communications |
| PSCM | Passive Sensor Cost Model |
| PSDR | Program System Definition Review |
| PSF | Point Spread Function |
| PSLA | Project Service-Level Agreement |
| PSR | Pre-ship Review |
| PSR | Program Status Review |
| PSR | Project Status Review |

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| PSRE | Propulsion System Rocket Engine Life Extension |
| PSS | Planning and Scheduling System |
| PSS | Project Scheduling Support |
| PTE | Periapsis Timing Estimator |
| Q | Quarter |
| Q1 | Quarter One |
| Q2 | Quarter Two |
| Q3 | Quarter Three |
| QA | Quality Assurance |
| QAE | Quality Assurance Engineer |
| QFN | Quad-Flatpack No-Lead |
| QMR | Quarterly Management Review |
| QMS | Quality Management System |
| QR | Quarterly Roll |
| QR | Quarterly Roll |
| QRA | Qualitative Risk Assessment |
| QRA | Quantified Risk Assessment |
| QS | Quality and Status Monitoring |
| QuikTOMS | Quik Total Ozone Mapping Spectrometer |
| R | Red |
| R | Solar Radius |
| R&A | Research and Analysis |
| R/Y/G | Red/Yellow/Green |
| R2P | Ready to Proceed |
| RAIDRS | Rapid Attack Identification, Detection, and Reporting System |
| RAO | Resource Analysis Office |
| RAO | Resource Assessment Office |
| RBA | Reflector Boom Assembly |
| RBR | Re-baseline Review |
| RBSP | Radiation Belt Storm Probes |
| RBSPICE | Radiation Belt Storm Probes Ion Composition |
| RCE | Reaction Control Engine |
| RCTS | Real-Time Command and Telemetry Systems |
| RE | Radiated Emissions |
| rec/dels | Receivables and Deliverables |
| REID | Risk of Exposure Induced Death |
| RF | Radio Frequency |
| RFA | Request for Action |
| RFI | Request for Information |
| RFI | Radio Frequency Interference |
| RFP | Request for Proposal |
| RFS | Radio Frequency Subsystem |
| RID | Review Item Discrepancy |
| RLEP | Robotic Lunar Exploration Program |
| RM | Review Manager |
| RMA | Reliability, Maintainability, and Availability |

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| RMCA | Rover Motor Control Assembly |
| RMDR | Requirements and Mission Definition Review |
| RMP | Risk Management Plan |
| ROM | Read-Only Memory |
| ROM | Rough Order of Magnitude |
| ROM | Rough Order-of-Magnitude |
| ROSA | Radio Occultation Sounder for Atmosphere |
| RPM | Revolutions Per Minute |
| RPP | Reimbursable Projects Program |
| RPPO | Reimbursable Projects Program Office |
| RRD | Recommendations, Responses, and Decisions |
| RS | Radiated Susceptibility |
| RSB | Radio Science Beacon |
| RSDO | Rapid Spacecraft Development Office |
| RTG | Radioisotope Thermoelectric Generator |
| RWA | Reaction Wheel Assembly |
| RXTE | Rossi X-ray Timing Explorer |
| RY | Real Year |
| RYG | Red Yellow Green |
| S | Secondary |
| S&MA | Safety and Mission Assurance |
| S/A | Solar Array |
| S/C | Spacecraft |
| S/N | Signal-to-Noise Ratio |
| S/P | Service Platform |
| S/S | Subsystem |
| S/W | Software |
| SA | Schedule Assessment |
| SA | Single Access |
| Sa/SPaH | Sample Acquisition, Processing, and Handling |
| SAC | Satélite de Aplicaciones Científicas |
| SACP | Software and Avionics Control Panel |
| SAF | |
| SAIC | Science Applications International Corporation |
| SAIL | Shuttle Avionics Integration Laboratory |
| SAM | Sample Analysis at Mars |
| SAMPEX | Solar, Anomalous, and Magnetospheric Particle Explorer |
| SAO | Smithsonian Astrophysical Observatory |
| SAR | System Acceptance Review |
| SAS | Science Analysis System |
| SAVIO | Software and Avionics Integration Office |
| SBIRS | Space-Based Infrared System |
| SBU | Sensitive But Unclassified |
| SCA | Spacecraft A |
| SCaN | Space Communications and Navigation |
| SCB | Spacecraft B |

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| SCEA | Society of Cost Estimating and Analysis |
| SCISAT | Scientific Satellite |
| SCL | Schedule Confidence Level |
| SCP | Stellar Classification Program |
| SDBI | Short Duration Biological Investigation |
| SD-GS | SAC-D Ground System |
| SDL | Space Dynamics Laboratory |
| SDO | Solar Dynamics Observatory |
| SDR | System Definition Review |
| SDR | Systems Design Review |
| SDS | Science Data Systems |
| SDST | Small Deep Space Transponder |
| SE | Systems Engineer |
| SE | Systems Engineering |
| SE&I | Systems Engineering and Integration |
| SEC | Sun-Earth Connection |
| SEIT/PM | Systems Engineering, Integration, and Test/Project Management |
| SELVS | Small Expendable Launch Services |
| SEM | Software Estimation Model |
| SEM | Systems Engineering Management |
| SEMP | System Engineering Management Plan |
| SERB | Space Experiments Review Board |
| SERV | Safety Enhanced Reentry Vehicle |
| SET | Systems Engineering Team |
| SET-1 | Space Environment Testbed-1 |
| SETI | Search for Extra-Terrestrial Intelligence |
| SEU | Single-Event Upset |
| SF | Structural Safety Factor |
| SGLT | Space-Ground Link Terminal |
| SGSS | SN (Space Network) Ground Segment Sustainment |
| SHFH | Space Human Factors and Habitability |
| SHM | Scalar Helium Magnetometer |
| SI units | International System units |
| SI&T | System Integration and Test |
| SIB | Systems Integration Board |
| SID | Strategic Investment Division |
| SIL | System Integration Laboratory |
| SINDA | Systems Improved Numerical Differencing Analyzer |
| SIP | Subsystem Implementation Plan |
| SIR | System Integration Review |
| SIRTF | Space Infrared Telescope Facility |
| SIT | System Integration and Test |
| SLC | Spacecraft Launch Complex |
| SLC-2 | Space Launch Complex 2 |
| SLOC | Source Lines of Code |
| SLSD | Space Life Sciences Directorate |

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| SMA | Schedule Management Architecture |
| SMA | Science Monitoring Area |
| SMA | Spin Mechanism Assembly |
| SMAP | Soil Moisture Active and Passive |
| SMART | Supplementary Mission Advisory & Risk Team |
| SMC | Space and Missile Center |
| SMD | Science Mission Directorate |
| SMD PMC | Science Mission Directorate Program Management Council |
| SMD | Safety Mission Directorate |
| SMD | Science Mission Directorate |
| SMD | Science Mission Directorate |
| SME | Subject Matter Expert |
| SMEX | Small Explorers |
| SMM | Solar Maximum Mission |
| SMO | Supplemental Medical Objective |
| SMO | Systems Management Office |
| SMP | Science Management Plan |
| SMS | Space Motion Sickness |
| SMSR | Safety and Mission Success Review |
| SMT | Schedule Management Team |
| SMTF | Software Maintenance and Training Facility |
| SN | Space Network |
| SNET | Start No Earlier Than |
| SNP | Schedule Management Plan |
| SO | Science Office |
| SOC | Science Operations Center |
| SOCM | Space Operations Cost Model |
| SOFIA | Stratospheric Observatory For Infrared Astronomy |
| SOMD | Space Operations Mission Directorate |
| SOPI | Standard Operating Procedure Instruction |
| SOW | Statement of Work |
| SPF | Single Point Failure |
| SPI | Schedule Performance Index |
| SPI | Science Principal Investigator |
| SPIDER | Scalable Processor-Independent Design for Extended Reliability |
| SPMC | Science Division Program Management Council |
| SPP | Solar Probe Plus |
| SR | Sufficiency Review |
| SR&QA | Safety, Reliability, and Quality Assurance |
| SRA | Schedule Risk Analysis |
| SRB | Standing Review Board |
| SRD | Schedule Risk Discussion |
| SRM | Systems Review Manager |
| SRO | Systems Review Office |
| SRQA | Safety, Reliability & Quality Assurance |
| SRR | System Requirements Review |

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| SRS | Sally Ride Science |
| SRU | Stellar Reference Unit |
| SSB | Space Support Building |
| SSCAG | Space Systems Cost Analysis Group |
| SSE | Subsystem Engineers |
| SSIRU | Scalable Space Inertial Reference Unit |
| SSMAP | System Safety & Mission Assurance Plan |
| SSPA | Solid-State Powered Amplifier |
| SSR | Solid State Recorder. |
| SSS | Sea Surface Salinity |
| ST | Science Team |
| STAT | Schedule Test and Assessment Tool |
| STB | System Test Bed |
| STD | Scientific and Technical Document |
| STDT | Science and Technology Definition Team |
| STEREO | Solar Terrestrial Relations Observatory |
| STI | Servicios Tecnológicos Integrados |
| STL | Spacecraft Test Laboratory |
| STP | Solar Terrestrial Probes |
| STP | Space Test Program |
| STRATCOM | Strategic Command |
| STS | Space Transportation System |
| STS | System Technology Solution |
| STScI | Space Telescope Science Institute |
| STT | Static Thermal Test |
| STU | Secure Telephone Unit |
| STV | Static Test Vehicle |
| SUA | Schedule Uncertainty Analysis |
| SUPROM | Start Up Programmable Read Only Memory |
| SUROM | Start Up Read Only Memory |
| SV | Space Vehicle |
| SVP | Structure Verification Plan |
| SVT | System Verification Test |
| SW | Software |
| SwRI | Southwest Research Institute |
| SWTB | Software Test Bench |
| T&V | Testing and Verification |
| T/C | Thermocouple |
| T/V RIO | Temperature/Voltage Remote Input Output |
| T/V | Test Vehicle |
| TA | Technical Authority |
| TAWS | Test Anomaly Worksheets |
| TAYF | Test-As-You-Fly |
| TBC | To Be Confirmed |
| TBC | To Be Coordinated |
| TBD | To Be Determined |

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|-------------|---|
| TBD | To Be Developed |
| TBR | To Be Resolved |
| TBR | To-Be-Requested |
| TCE | Threshold Crossing Event |
| TCERT | Threshold Crossing Event Review Team |
| TCM | Trajectory Correction Maneuvers |
| TCPI | To Complete Cost Performance Indicator |
| TDP | Technology Demonstration Package |
| TDRS | Tracking Data and Relay Satellite |
| TDRSS | Tracking and Data Relay Satellite System |
| TDRSS-H | Tracking and Data Relay Satellite System-H |
| TDS | Time Distribution System |
| TES | Thermal Enclosure System |
| THEMIS | Time History of Events and Macroscale Interactions |
| TIM | Technical Interchange Meetings |
| TIMED | Thermosphere Ionosphere Mesosphere Energetics and Dynamics |
| TIMED-SABER | Thermosphere, Ionosphere, Mesosphere Energetics and Dynamics-Sounding of the Atmosphere Using Emission Radiometry |
| TIRS | Thermal Infrared Sensor |
| TLE | Two-Line Elements |
| TLI | Technology Level Index |
| TMA-1 | Tycho Magnetic Anomaly |
| TMC | Technical, Management, and Cost |
| TMCO | Technical, Management, Cost, and Other |
| TMG | Thermal Micrometeoroid Protection Garment |
| TO | Task Order |
| TOCC | TDRS Operations Control Center |
| TOF | Time of Flight |
| ToR | Terms of Reference |
| TPM | Technical Performance Measure |
| TPM | Technology Performance Measure |
| TPS | Thermal Protection System |
| TRASYS | Thermal Radiation Analyzer System |
| TRL | Technical Readiness Level |
| TRL | Technology Readiness Level |
| TRL | Test Readiness Level |
| TRM | Transmit/Receive Module |
| TRMM | Tropical Rainfall Measurement Mission |
| TRR | Test Readiness Review |
| TSA | TPS Support Assembly |
| TSE | TDRS Spacecraft Emulator |
| TSF | Transition to Science Formulation |
| TSM | Transition to Science Formation Phase Maneuvers |
| TT&C | Telemetry, Tracking and Command |
| TV | Thermal Vacuum |
| TVAC | Thermal Vacuum |

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| TY | Total Year |
| U.S. | United States |
| UB | Undistributed Budget |
| UCLA | University of California, Los Angeles |
| UFE | Unallocated Future Expenses |
| UHF | Ultra High Frequency |
| ULA | United Launch Alliance |
| UNEX | University-Class Explorers |
| US | United States |
| USAF | United States Air Force |
| USAFROTC | United States Air Force Reserve Officers Training Corps |
| USCM | Unmanned Space Cost Model |
| USCM8 | Unmanned Space-Vehicle Cost Model 8 |
| USGS | United States Geological Survey |
| USN | Universal Space Network |
| USO | Ultra-Stable Oscillator |
| UTC | United Technologies Corporation |
| UTC | Universal Time Coordinated |
| UVS | Ultraviolet Imaging Spectrometer |
| V&V | Verification and Validation |
| VAB | Vehicle Assembly Building |
| VAFB | Vanderberg Air Force Base |
| VERITAS | Very Energetic Radiation Imaging Telescope Array System |
| VIE | Vehicle Interface Element |
| VIH | Vehicle Interface Hardware |
| VOS | Vehicle on Standby |
| VSS | Vehicle Service Structure |
| WAD | Work Authorization Document |
| WAVES | Plasma and Radio Waves Investigation |
| WBS | Work Breakdown Schedule |
| WBS | Work Breakdown Structure |
| WG | Working Group |
| WGS | Wideband Global SATCOM |
| WISE | Wide-Field Infrared Survey Explorer |
| WRP | Wide Range Pump |
| WSC | White Sands Complex |
| WSDC | WISE Science Data Center |
| WSDS | WISE Science Data System |
| WSTB | Work station test bed |
| WTR | Western Test Range |
| WYE | Workyear Equivalent |
| XMM-Newton | X-ray Multi-Mirror Mission – Newton |
| XTB | Extra test bed |
| Y | Yellow |
| YTD | Year-To-Date |