



Jet Propulsion Laboratory
California Institute of Technology

GLOSSARY OF ACRONYMS

volumes 1 through 7

CASSINI FINAL MISSION REPORT 2019

Attachment A

Glossary of Acronyms and Definitions

A	
A/D	Analog-to-Digital
AACS	Attitude and Articulation Control Subsystem
AAN	Automatic Alarm Notification
AB	Approved By
ABS timed	Absolute Timed
AC	Acoustics
AC	Alternating Current
ACC	Accelerometer
ACCE	Accelerometer Electronics
ACCH	Accelerometer Head
ACE	Aerospace Communications & Information Expertise
ACE	Aerospace Control Environment
ACE	Air Coordination Element
ACE	Attitude Control Electronics
ACI	Accelerometer Interface
ACME	Antenna Calibration and Measurement Equipment
ACP	Aerosol Collector Pyrolyzer
ACS	Attitude Control Subsystem
ACT	Actuator
ACT	Automated Command Tracker
ACTS	Advanced Communications Technology Satellite
AD	Applicable Document
ADAS	AWVR Data Acquisition Software
ADC	Analog-to-Digital Converter
ADP	Automatic Data Processing
AE	Activation Energy
AEB	Agência Espacial Brasileira (Brazilian Space Agency)
AF	Air Force
AFC	AACS Flight Computer
AFETR	Air Force Eastern Test Range
AFETRM	Air Force Eastern Test Range Manual

AFS	Atomic Frequency Standard
AFT	Abbreviated Functional Test
AFT	Allowable Flight Temperature
AFS	Andrew File System
AGC	Automatic Gain Control
AGU	American Geophysical Union
AHSE	Assembly, Handling, & Support Equipment
AIT	Assembly, Integration & Test
AIV	Assembly, Integration & Verification
AKR	Auroral Kilometric Radiation
AL	Agreement Letter
AL	Aluminum
AL	Anomalously Large
ALAP	As Low As Practical
ALARA	As Low As Reasonably Achievable
ALB	Automated Link Builder
ALD	Assistant Laboratory Director
ALF	Assisted Load Format
ALMA	Atacama Large Millimeter/submillimeter Array
ALT	Altimeter
AM	Americium
AM	Articulation Mechanism
AMC	Advanced Media Calibration
AMMOS	Advanced Multi-Mission Operations System
AMNH	American Museum of Natural History
AMO	Air Mass Zero
AMS	Antenna Microwave Subsystem
AMTEC	Alkali Metal Thermoelectric Converter
amu	atomic mass unit
ANT	Antenna
AO	Announcement of Opportunity
AOS	Acquisition of Signal
AP	Action Program
AP	Activity Plan

AP	Auxiliary Propulsion
APA	Antenna Pointing Assembly
APDTP	Archive Policy and Data Transfer Plan
APF	Activity Plan File
APGEN	Activity Plan Generator
APID	Application Processing Identification
APL	Applied Physics Lab
APL	Approved Parts List
APN	Administrative Practices Notebook
APP	Automated Picture Planning
APS	Airborne Purge Subsystem
APSA	Advanced Photovoltaic Solar Array
APSD	Archive Plan for Science Data (formerly known as APDTP)
APU	Auxiliary Power Unit
AQS	Acquisition Sun Sensor
AR	Anomaly Report
ARA	Area Routing Assembly
ARC	Ames Research Center
ARIA	Advanced Range Instrumentation Aircraft
ARPC	Ascending Ring Plane Crossing
ARR	Array
ARRAY R	Array Reference
ARRAY S	Array Slave
ARWM	Articulated Reaction Wheel Mechanism
ASA	Austrian Space Agency
ASAP	as soon as possible
ASCII	American Standard Code for Information Interchange
AS	Airborne Support Equipment
ASI	Agenzia Spaziale Italiana (Italian Space Agency)
ASI	Atmospheric Structure Instrument
ASIC	Application-Specific Integrated Circuit
ASME	American Society of Mechanical Engineers
ASP	Automated Sequence Process
Assy	Assembly

ASTM	American Society for Testing and Materials
ASZCAN	Aszmuthal Scan
ATC	Autonomous Temperature/Thermal Control
ATCA	Australian Telescope Compact Array Narrabri
ATDF	Archival Tracking Data File
ATLO	Assembly, Test, and Launch Operations
ATM	Atmospheres Node
ATMOS	Atmospheres Node
ATNF	Australian Telescope National Facility
ATP	Acceptance Test Procedure/Plan
AU	Astronomical Unit
Autorad	Automatic Command Radiation
AUX, OSC	Auxiliary oscillator
AUXPIM	Auxiliary Oscillator Characterization Periodic Instrument Maintenance
AWG	American Wire Gauge
AWS	Amazon Web Services
AWVR	Advanced Water Vapor Radiometer
Az	Azimuth
AZSCAN	Azimuth Scan

B

-BU	-backup (used appended to the maneuver name)
B	Billions
B/S	Boresight
Ba	Barium
BA	Bus Adapter
BAIL	Backup/ Backdoor ALF Injection Loader
BAQ	Block Adaptive Quantizer
BAT	Bus Analyzer Tool
BATS-R-US	Block Adaptive Tree Solar-Wind Roe Upwind Scheme
BAU	Bus Arbitration Unit
BB	Basebody
BB	Bread Board
BC	Bus Controller
BCA	Battery Control Assembly

BCE	Bench Checkout Equipment
BCIOU	Bus Controller Input Output Unit
BCM	Bus Control Manager
BCR	Baseline Confirmation Review
BCRTM	Bus Controller, Remote Terminal, Monitor
BCSS	Back Cover Subsystem
BD	Burst Disc
BDS	Bulk Data Storage
BEB	Binary-Encounter-Bethe
BER	Bit Error Rate
BIH	Bureau International de l'Heure
BIRA	Belgisch Instituut voor Ruimte-Aëronomie (Belgian Institute for Space Aeronomy)
BIT	Built-In Test
BIU	Bus Interface Unit
bKOM	Broadband Kilometer
BMON	Bus Monitor
BNSC	British National Space Centre
BOB	Bang-Off-Bang
BOB	Breakout Box
BOD	Beneficial Occupancy Date
BOE	Boresight-Off-Earth
BOL	Beginning of Life
BOM	Beginning of Mission
BOT	Beginning of Track
BPF	Band Pass Filter
BPLV	Bipropellant Latch Valve
BPLVD	Bipropellant Latch Valve Driver
BPR	Back-Pressure Relief
BPS	Bits Per Second
BRF	Band Reject Filter
BSIM	Bus Simulator
BSPT	Bipropellant System Performance Tool
BSR	Bistatic Radar
BTA	Bipropellant Tank Assembly

BTK	Block for Transfer and Correction
BTU	British Thermal Unit
BURPT	Brad's Update Required Prediction Tool
BUTT	Brad's Update Targeting Tester (Science Planning tool)
BVE	Block V Exciter
BVR	Block V Receiver
BVT	Body Vector Table
BWG	Beam Wave Guide

C

C/A	Closest Approach
C/C	CRAF/Cassini
C/CAM	Collision and Contamination Avoidance Maneuver
C/O	Check Out
CA	Chemical Analyzer
CA	Closest Approach
CAA	Correcting Agency
CABL	Cabling Subsystem
CAD	Computer-Aided Design
CAE	Computer Aided Engineering
CAIP	Constraint_Avoidance_In_Progress
CAKE	Cassini Apoapses for Kronian Exploration
CAL	Calibrated or Calibration
Caltech	California Institute of Technology
CAM	Collision Avoidance Maneuver
CAM	Command Approval Meeting
CAPS	Cassini Plasma Spectrometer
CAPTRAN	Macro Validation Tool
CAR	Cassini Activity Request
CAR	Command Ambiguity Resolver
CAS	Computer Aided Software
CASSIE	Cassini Internet Explorer
CASTL	Cassini Technical Library
CAT	Chemical Analyzer Target
CAT/MAT	Cassini Adaptation Team/Multi Mission Adaptation Team

CATS	Cassini AACS Test Station
CB	Concurred By
CBE	Current Best Estimate
CBH	Catalyst Bed Heater
CBL	Cabling
CC	Cargo Container
CCA	Change Control Authority
CCAFS	Cape Canaveral Air Force Station
CCB	Change Control Board
CCB	Configuration Control Board
CCD	Change Coupled Device
CCD	Charge Coupled Device
CCDS	Charge Coupled Device Standards
CCE	Camera Control Electronics
CCL	Channel Conversation Language
CCPOCC	CRAF/Cassini Payload Operations Control Center
CCR	Configuration Change Request
CCSDS	Consultative Committee for Space Data Systems
CCT	Central Communications Terminal
CCW	Counter-Clockwise
CD	Compact Disc
CDA	Cosmic Dust Analyzer
CDAP	Cassini Data Analysis Program
CDB	Central Data Base
CDEA	Command and Data Electronics Assembly
CDF	Cumulative Distribution Function
CDL	Command Data Language
CDMS	Command & Data Management System
CDR	Channel Data Record
CDR	Critical Design Review
CD-ROM	Compact Disc-Read Only Memory
CDRS	Cassini Downlink and Reconciliation Subsystem
CDS	Circuit Data Sheet
CDS	Command & Data Subsystem

CDSCC	Canberra Deep Space Communications Complex
CDSS	Command & Data Subsystem Simulator
CDS-SE	Command & Data Subsystem-Support Equipment
CDT	Cassini Design Team
CDU	Command Demodulation Unit
CDU	Command Detector Unit
CE	Cognizant Engineer
CE	Critical Enable
CEA	CIRS Electronics Assembly
CEC	Co-rotation Enforcement Currents
CEL	Cassini Electronic Library
CELV	Complementary Expendable Launch Vehicle
CEM	Channel Electron Multipliers
CEM	Cassini Equinox Mission
CEQ	Council on Environmental Quality
CER	Co-rotation Eccentricity Resonance
CERR	Critical Event Risk Review
CESR	Centre d'Etudes Spatiales des Rayonnements (Space Studies Center of Radiation, France)
CETP	Centre d'Etudes des Environnements Terrestre et Planétaires (Center for the Study of Terrestrial and Planetary Environments, France)
CEU	Central Electronics Unit
CG	Center of Gravity
CGS	Cassini Ground System
CHA	Camera Head Assembly
CHARM	Cassini Huygens Analysis and Results of the Mission
CHDO	Compressed Header Data Object
CHEMS	Change-Energy-Mass Spectrometer
CHPIP	Cassini/Huygens Project Implementation Plan
CI	Cage Instability
CI	Configuration Item
CIA	Collision-Induced Absorption
CICLOPS	Cassini Imaging Central Laboratory for Operations
CIDEX	Cometary Ice and Dust experiment
CIFP	CDS Internal Fault Protection

CIMS	Cassini Information Management System
CIR	Co-rotation Interaction Region
CIRS	Composite Infrared Spectrometer
CISO	Computing and Information Services Office
CIT	California Institute of Technology
CIU	Control Interface Unit
CK	SPICE Spacecraft Orientation Data Kernel
CKT	Circuit
CL	Communication Line
CLCW	Command Link Control Work
CLTU	Command Link Transfer Unit
CM	Center of Mass
CM	Central Meridian
CM	Circulation Model
CM	Configuration Management
Cm-244	Curium-244
CMC	Centralized Monitor and Control
Cmd	Command
CME	Configuration Management Engineer
CME	Coronal Mass Ejections
CMI	Cyclotron Maser Instability
CMOS	Complementary Metal Oxide Semiconductor
CMP	Configuration Management Plan
CMR	Configuration Management Requirements
CMT	Constraint Monitor Table
CNES	Centre National d'Etudes Spatiales (National Centre for Space Studies, France)
CNR	Consiglio Nazionale delle Ricerche (National Research Council, Italy)
CNRS	Centre National de la Recherche Scientifique (National Center for Scientific Research, France)
CNSA	China National Space Administration
CO	Carbon Monoxide
CO	Cassini Orbiter
Co	Cobalt
CO.RI.S.T.A	Consortium of Research on Advanced Remote Sensing Systems

COBE	Cosmic Background Explorer
CODACON	Coded Anode Converter
CODMAC	Committee on Data Management and Computation
Cog E	Cognizant Engineer
Co-I	Co-Investigator
COIN	Coincidence Plate
COMA	Cometary Matter Analyzer
Comm Svc	Communication Services
COMPARE	File Comparison Software
COMPLEX	Committee on Planetary and Lunar Exploration
CONAE	Comisión Nacional de Actividades Espaciales (National Space Activities Commission, Argentina)
CONF	Confirmation
COP	Command Operation Procedure
CORE	Cassini Operations Reference Encyclopedia
COS	Common Operating System
Cos	Cosine
COTS	Commercial Off-The-Shelf
COV	Covariance
COVT	Cassini Observation Verification Tool
CP	Cassini Project
CPC	Compound Parabolic Concentrator
CPCI	Computer Program Configuration Item
CPD	Cassini Proposals Due
CPF	Cognos Project File
CPF	Command Packet File
CPMS	Cassini Propulsion Module Subsystem
CPT	Channel Parameter Table
CPU	Central Processing Unit
CR	Concentration Ratio
CRAF	Comet Rendezvous/Asteroid Flyby
CRAND	Cosmic Ray Albedo Neutron Decay
CRC	Critical Register Control
CRC	CIMS Resource Checker

CREWE	Coordinated Radio Electron and Waves Experiment
CRF	Command Request Form
CRG	Coherent Reference Generator
CRIMS	Cometary Retarding Ion Mass Spectrometer
CS	Closed Source
CSA	Canadian Space Agency
CSA	Charge Sensitive Amplifier
CSAS	Cassini Spacecraft Analysis Subsystem
CSCI	Computer Software Configuration Item
CSET	Cassini System Engineering Team
CSI	Control-Structure Interactions
CSIRO	Commonwealth Scientific and Industrial Research Organisation (Australia)
CSM	Cassini Solstice Mission
CSN	Closed Source Neutral
CSO	Compensated Sapphire Oscillator
CSOC	Consolidated Space Operations Contract
CSR	Customer Service Rep
CSRRD	Cross-Systems Requirements Reference Document
CSS	Coarse Sun Sensor
CSWG	Campaign Science Working Group
CTA	Compatibility Test Area
CTR	Cognizant Technical Representative
CTS	Communications Technology Satellite
CTT	Compatibility Test Trailer
CTU	Control and Timing Unit
CTV	Cassini Turn Visualizer
CU	Control Unit
CUCA	Chirp Upconverter and Amplifier
CUL	Clean-Up Loop
CUP	CIMS Uplink Process
CV	Control Voltage
CW	Clockwise
CW	Constant/Continuous Wave

D	
VDOR	Delta-Differenced One-way Ranging
ΔV	Delta V
D	Darmstadt
D	Draft
D&CS	Data and Computing Services
D(CDS)	Deferred CDS
D/H	Deuterium to Hydrogen
D/L	Downlink
DA	Direct Access
DA	Double Amplitude
DA	Dust Analyzer
Da	Daltons
DAC	Digital-to-Analog Converter
DAM	Decametric
DARA	Deutsche Agentur Für Raumfahrtangelegenheiten (German Agency for Space Affairs)
DASIAC	Defense Atomic Support Information Analysis Center
DAU	Direct Access Unit
DB	Data Buffer
DB	Deadband
dB	Decibel
DBA	Data Bus Adapter
dBc	Decibels below carrier
DBE	Double-Bit Error
DBMS	Data Base Management System
DC	Direct Current
DCG	Digital Chirp Generator
DCM	Delivery Coordination Meeting
DCN	Document Change Notice
DCO	Data Cut-Off
DCO	Digitally Controlled Oscillator
DCP	Data Compression Processor
DCS	Data and Computing Services

DCSS	Descent Control System
DCT	Discrete Cosine Transform
DDA	Dual Drive Actuator
DDE	Displacement Damage Effect
DDOR	Delta Differential One-Way Ranging
DDOSO	DSN Development, Operations, and Services Program Office
DDR	DSMS Delivery Review
DEF	Displacement Equivalent Fluence
Delta-V	Velocity Increment
DESATS	Desaturation
DESP	Department of Space Environment (France)
DEV	Devices Subsystem
DF	Dissipation Factor
DFPW	Downlink Fields Particles and Waves
DFPWTCM	Downlink Fields, Particles and Waves Trajectory Correction Maneuver
DFTS	Dual-Fault-Tolerant Switch
DGDS	Downlink Ground Data System
DGS	Downlink Ground System
DI	Dielectrically Isolated
DIF	Dipartimento Interateneo di Fisica (Interuniversity Department of Physics, Italy)
DIFP	Differential Ion Flux Probe
DIO	Distributed Instrument Operations
DIPS	Dynamic Isotope Power System
DISR	Descent Imager and Spectral Radiometer
Div	Division
DKF	DSN Keyword File
DL	Downlink
DLF	Downlink Frequency
DLIB	Document Library
DLR	Deutsches Zentrum für Luft- und Raumfahrt (German Aerospace Centre)
DLWG	Downlink Working Group
DMA	Direct Memory Access
DMD	Data Monitor and Display
DMR	Detailed Mission Requirements

DMSP	Defense Meteorological Satellite Program
DMT	Data Management Team
DMWF	Desired Memory Word File
DN	Data Number
DN	Digital Number
DN	Discipline Nod
DO	Distributed Operations
DoD	Department of Defense
DOD	Depth of Discharge
DOD	Differential One-Way Doppler
DoE	Department of Energy
dof	Degree of Freedom
DOI	Distributed Operations Interface
DOM	Distributed Object Manager
DOP	Diocetylphthalate
DOR	Differenced One-way Ranging
DOT	Department of Transportation
DOY	Day of Year
DP	Direct Program
DPA	Destructive Physical Analysis
DPA	Dipole Assembly
DPFR	Developmental Problem Failure Report
DPS	Division of Planetary Sciences
DPTRAJ	Double Precision Trajectory
DPU	Data Processing Unit
DR	Data Record
DR	Discrepancy Report
DRAM	Dynamic Random Access Memory
DRC	Danmarks Rumcenter (Danish National Space Center)
DRD	Data Requirements Description
DRPC	Descending Ring Plane Crossing
DRVID	Differenced Range Versus Integrated Doppler
DSA	Development Support Area
DSA	Digital Synchronization Assembly

DSCAL	Deep Space Calibration
DSCC	Deep Space Communications Complex
DSIT	Data Systems Integration Team
DSM	Deep Space Maneuver
DSMC	Direct Simulation Monte Carlo
DSMS	Deep Space Mission System
DSN	Deep Space Network
DSNMONCAL	DSN Monopulse Calibration
DSNOT	Deep Space Network Operations Team
DSOC	Deep Space Operations Center
DSOT	Data Systems Operations Team
DSP	Dual Shearplate
DSP-R	Digital Signal Processor-Recorder
DSRI	Danish Space Research Institute
DSS	Deep Space Station
DSS	Digital Subsystem
DST	Deep Space Transponder
DTF	Development and Test Facility
DTL	Drag Torque Limiter
DTM	Developmental Digital Test Model
DTM	Digital Terrain Model
DTM	Dynamics Test Model
DTR	Digital Tape Recorder
DTS	Dead Time Start
DTSTART	Dead Time Start
DTT	Downlink Tracking and Telemetry
DUCT	Downlink/Uplink Coherency Tool
DUET	Data Utilization Efficiency Tool
DUT	Device Under Test
DV	Data Volume
DV-EGA	Delta-V Earth Gravity Assist
DWE	Doppler Wind Experiment
DWG	Discipline Working Group
DWGC	Discipline Working Group Chairperson

DX Diplexer

E

E/Q Energy per Charge

EA Electronics Assembly

EA Energy Activation

EAC Extended Action Command

EAR Engineering Activities Review

EAR Export Administration Regulations

EAROM Electronically Alterable Read Only Memory

EBS EGSE Basic Software

ECB Energy-Cutoff Burn

ECC Emergency Command Center

ECH Electron Cyclotron Harmonic

ECI Engineering Change Instruction

ECM Engineering Change Management

ECO Engineering Change Office

ECR Engineering Change Request

eCRF Electronic Command Request Form

EDAC Error Detection and Correction

EDF Engineering Data File

EDF Experiment Data File

EDMG Engineering Data Management Group

EDMS Engineering Data Management System

EDR Experiment Data Record

EDT Engineering Flight Computer Diagnostic Tester

EED Electro Explosive Device

EEE Electronic, Electrical & Electromechanical

EEIS End-to-End Information System

EFC Electronic File Cabinet

EFC Engineering Flight Computer

EFCSE Engineering Flight Computer Support Equipment

EFL Effective Focal Length

EFP Explosively Formed Projectile

EG Entrance Grid

EGA	Earth Gravity Assist
EGA	Engine Gimbal Actuator
EGAP	Engine Gimbal Actuator P
EGE	Engine Gimbal Electronics
EGECU	Engine Gimbal Electronics Control Units
EGED	Engine Gimbal Electronics Driver
EGSE	Electrical Ground Support Equipment
EGSE	Engineering Ground Support Equipment
EH	External Harness
EHD	Elasto-Hydro-Dynamic
EICD	Electrical Interface Control Drawing
EID	Experiment Interface Document
EIFOV	Effective Instantaneous Field of View
EIP	Experiment Implementation Plan
EIS	Environmental Impact Statement
EISSS	Environmental Impact Statement Supporting Studies
EJGA	Earth Jupiter Gravity Assist
EK	Events Kernel
EKB	Extended Kalman-Bucy
EI	Elevation
ELF	Extremely Low Frequency
ELM	Electronic Mail
ELS	Eastern Launch Site
ELS	Electron Spectrometer
ELV	Expendable Launch Vehicle
EM	Electromagnetic
EM	Electron Multiplier
EM	Engineering Model
EM	Extended Mission
EMC	Electromagnetic Compatibility
EMF	Electromagnetic Force
EMI	Electromagnetic Interference
EMI/RFI	Electromagnetic Interference/Radio Frequency Interference
EMTB	Engineering Model Test Bed

EN	Engineering Node
ENA	Enable
ENA	Energetic Neutral Analyzer
ENA	Energetic Neutral Atom
ENG D/L	Engineering Downlink
Engr	Engineering
EOL	End-of-Life
EOLE	End-of-Life Effect
EOM	End of Mission
EOP	End of Project
EOP	End-of-Propellant
EOS	Equation of State
EOS-AM	Earth Observing System-Morning
EPC	Electronic Power Conditioner
EPD	Energetic Particle Detector
EPDC	Electrical Power Distribution Circuitry
EPO	Education and Public Outreach
EPP & RD	Environmental Program Policy and Requirements Document
EPS	Earth-Probe-Sun
EPS	Electronics Packaging Subsystem
EPSS	Electrical Power Subsystem
EPU	Event Processor Unit
ER	Eastern Range
ERE	Environmental Requirements Engineer
erfc	Error Function
ERRCE	Excessive RWA Rate Control Error
ERT	Earth Receive Time
ESA	Electrostatic Analyzer
ESA	European Space Agency
ESA	Explosive Safe Area
ESB	Earth Swing-by
ESD	Electrostatic Discharge
ESDU	Engineering Flight Computer Software Developmental Unit
ESMC	Eastern Space and Missile Center

ESMCR	Eastern Space and Missile Center Regulation
ESOC	ESA Operations Center
ESOC	European Space Agency Operations Center (Darmstadt, Germany)
ESR	Effective Series Resistance
ESS	Energy Storage Subsystem
ESTEC	European Space Technology and Research Center
ET	Eastern Time
ETA	Environmental Test Authorization
ETAF	Environmental Test Authorization
ETC	Excessive Thruster Commanding
ETL	Environmental Test Labs
ETM	Element Technical Manager
ETR	Eastern Test Range
ETR	Equivalent Time Ratio
ETSS	Environmental Test Specification Summary
EU	Engineering Unit
EURECA	European Retrievable Carrier
EUS	Energia Upper Stage
EUV	Extreme Ultraviolet
eV	Electron Volt
EVA	Extra Vehicular Activity
EVEEGA	Earth-Venus-Earth-Earth Gravity Assist
Ext	External

F

F	Final
F	Fluorine
F/W	Firmware
FA	Flight Acceptance
FA	Formal Agreement
FAB	Fabrication
FAC	Facility
FAC	Field Aligned Current
FAP	Frequently Acronym Phrase
FAR	Flight Acceptance Review

FARM	Frame Acceptance and Reporting Mechanism
FASTSIM	High-speed Simulator
FC	Faraday Cage
FCB	Facility Control Building
FCU	Flight Computer Unit
FDD	Functional Design Document
FDS	Fine Digital Sun Sensor
FDU	Fault Detection Unit
FEC	Forward Error Correction
FEE	Front-End Electronics
FEI	File Exchange Interface
FEM	Finite Element Model
FEN	Field-Equivalent-Noise
FEOT	Facility Experiment Operations Team
FET	Field Effect Transistor
FFT	Fast Fourier Transform
FG	Frequency Generator
FGM	Fluxgate Magnetometer
FH	Filter Hybrid
FHDF	Flight Hardware Development Facility
FI	Facility Instrument
FIFO	First In/First Out
FIM	Facility Instrument Manager
FIR	Far Infrared
FIRDR	Final Interface Requirements and Design Review
FIS	Flight Instrument System
FIST	Facility Instrument Science Team
FIT	Flight Investigation Team
FK	Frames Kernel
FLA	Four/Five Letter Acronym
FLT	Flight
FLT-SP	Flight-Spare
FM	Flight Model
FM	Frequency Modulation

FMEA	Failure Mode Effects Analysis
FMECA	Failure Mode Effects & Criticality Analysis
FMH	Free Molecular Heating
FO	Flight Observable
FOM	Figure of Merit
FOP	Flight Operations Plan
FORP	Fuel-Oxidizer Reaction Products
FORS	Fiber Optic Rotation Sensor
FOS	Factor of Safety
FOV	Field of View
FP	Fault Protection
FP	Flight Project
FP	Focal Plane
FPA	Focal Plane Array
FPA	Focal Plane Assembly
FPGA	Field Programmable Gate Array
FPO	Flight Projects Office
FPP	Fields and Particles Pallet
FPP	Flight Project Practice
FPR	Flight Performance Reserve
FPSG & R	Flight Projects Safety Guide and Requirements
FPSO	Flight Project Support Office
FPW	Fields, Particles, and Waves
FPWI	Fields/Particles/Waves INMS
FR	Failure Report
FR	Flight Rule
FR	Functional Requirements/Review
FRD	Functional Requirement Document
FRF	File Release Form
FRG	Federal Republic of Germany
FRPO	F-ring and Proximal Orbit
FRR	Functional Readiness Review
FRSS	Front Shield Subsystem
FS	Flight System

FSAR	Final Safety Analysis Report
FSDS	Flight Software Development System
FSIV	Final Sequence Integration and Validation
FSO	Flight System Operations
FSSE	Flight Software Sustaining Engineering
FST	Facility Science Team
FSTB	Flight Software Test Bed
FSW	Flight Software
FTA	Fault Tree Analysis
FTECS	Fundamental Technologies
FTS	Flight Termination System
FtS	Follow the Sun
FTS	Fourier Transform Spectrometer
FTS	Frequency and Timing Subsystem
FU	Flight Unit
FUSE	Far Ultraviolet Spectroscopic Explorer
FUV	Far Ultraviolet
FWHM	Full Width at Half Maximum
FY	Fiscal Year

G

G34	Goldstone 34 Meter Antenna
G70	Goldstone 70 Meter Antenna
G&C	Guidelines and Constraints
GaAIA	Gallium-Aluminum-Arsenide
GaA	Gallium Arsenide
GC	Gas Chromatographic
GCF	Ground Communications Facility
GCM	General Circulation Model
GCM	Global Circulation Model
GCMD	Ground Command
GCMS	Gas Chromatograph Mass Spectrometer
GCR	Galactic Cosmic Ray
gd	Gadolinium
GDD	General Design Document

GDF	Globally Distributed Flux
GDS	Ground Data System
GDSCC	Goldstone Deep Space Communications Complex
GDSE	Ground Data System Engineer
Ge	Germanium
GEO	Geosciences
GF	Grand Finale
GFE	Government Furnished Equipment
GFO	Grand Finale Orbits
GFP	Government Furnished Property
GFSWG	Grand Finale Sharing Working Group
GHE	Gaseous Helium
GHz	Gigahertz
GIF	GCF Interface
GISS	Goddard Institute for Space Studies
GL & Cs	Guidelines and Constraints
GLL	Galileo
GM	Gravitational Mass
GMB	Ground Movable Block
GMT	Greenwich Mean Time
GN&C	Guidance, Navigation, and Control
GN ₂	Gaseous Nitrogen
GOB	Group of Blocks
GPHS	General Purpose Heat Source
GPIB	General Purpose Interface Bus
GPS	Global Positioning System
GR	General Relativity
GRA	GPS Receiver/Processor Assembly
GRS	Gamma Ray Spectrometer
GRS	Great Red Spot
GS	Ground System
GSCCB	Ground System Change Control Board
GSCM	Ground System Configuration Management
GSDM	Ground System Development Manager

GSE	Geocentric Solar Ecliptic
GSE	Government Supplied Equipment
GSE	Gravity Science Enhancement
GSE	Ground Support Equipment
GSFC	Goddard Space Flight Center
GSM	Gravity Science Enhancement
GSO	Geo-Stationary Orbit
GSOM	Ground System Operations Manager
GSR	Ground System Readiness
GSRR	Ground System Readiness Review
GSSE	Ground Software System Engineer
GSW	Ground Software
GUI	Graphical User Interface
GVSC	Generic VHSIC Spaceborne Computer
GW	Gravitational Wave
GWE	Gravitational Wave Experiment
GWE	Gravity Wave Experiment
GWS	Great White Spot

H

h	Hexadecimal
h	Hour
H/S	Hardware/Software
H/W	Hardware
HAARP	High-frequency Active Auroral Research Program
HASI	Huygens Atmospheric Structure Instrument
HASI-PWA	Huygens Atmospheric Structure Instrument-Permittivity, Wave, and Altimetry
HCD	Hardware Command Decoder
HCN	Hydrogen Cyanide
HCP	Hardware Command Program
HCS	High-speed CMOS Silicon/Sapphire
HDAC	Hydrogen Deuterium Absorption Cell
HDB	Huygens Data Base
HDC	Hardware Command Decoder
HDR	Hardware Design Review

He	Helium
HEF	High Efficiency
HeLV	Helium Latch Valve
HeLVD	Helium Latch Valve Driver
HeLVD	Helium Pressurant Latch Valve Drivers
HeLVDA	Helium Latch Valve Driver Assembly
HEMT	High Electron Mobility Transistor
HEO	High Earth Orbit
HEXFET	Hexagonal Field Effect Transistor
HFR	High Frequency Receiver
hFE	Hybrid Parameter Forward Current Gain Common Emitter
HGA	High-Gain Antenna
HGA2RAM	High-Gain Antenna (HGA) to the dust RAM direction
HGAS	High-Gain Antenna Swap
HK	Housekeeping
HL	High Level
HMCS	Huygens Monitor and Control System
HMOC	High Mass Organic Cation
HOL	High Order Language
HOM	Hectometric
HP	Hewlett-Packard
HP	High Pressure
HP	Huygens Probe
HPA	High-Power Amplifier
HPD	Hot Plasma Detector
HPF	Hazardous Processing Facility
HPLV	High Pressure Latch Valve
HPOC	Huygens Probe Operations Center
HPSP	High Precision Scan Platform
HQ	Headquarters
HR	High Rail
HRCR	Hardware Requirements and Certification Review
HRD	High Rate Detector
HRP	High-Rate Processor

HRTF	Huygens Recovery Task Force
H-S SIM	High-Speed Simulator
HSP	High Speed Photometer
HSPD	Homeland Security Presidential Directive
HSR	Hardware Safety Review
HSS	High Speed Simulator
HST	Hubble Space Telescope
HSWT	Huygens Science Working Team
HTA	Helium Tank Assembly
HTR	Heater
HUY	Huygens Probe
HV	High Voltage
HVPS	High Voltage Power Supply
HVU	High Voltage Unit
HW	Hardware
HWHM	Half-Width-Half-Maximum
Hz	Hertz

I

I&T	Integration and Test
I/F	Interface
I/O	Input/Output
I/P	Input
IA/LP	Ion Analyzer/Langmuir Probe
IAA	Inter-Agency Agreement
IABS	Integrated Apogee Boost System
ICA	Inventory Change Authorization Form
IAD	Ion-Aided Deposition
IAG	International Association of Geodesy
IAR	Independent Annual Review
IASF	Istituto di Astrofisica Spaziale e Fisica Cosmica (Institute for Space Astrophysics and Cosmic Physics, Italy)
IAU	International Astronomical Union
IBEX	Interstellar Boundary Explorer
IBIT	Impulse Bit

IBS	Ion Beam Spectrometer
IC	Imperial College
IC	Instrument Coordinator
IC	Integrated Circuit
IC	Internal Combustion
ICA	Inventory Change Authorization
ICCB	Interface Change Control Board
ICD	Interface Control Document
ICD	Interface Control Drawing
ICDS	Interface Circuit Data Sheet
ICME	Interplanetary Coronal Mass Ejection
ICO	Instrument Check Out
ICR	Instrument Confirmation Review
ICV	Inter-Center Vector
ID	Interface Document
IDAP	Immediate/Delayed Action Program
IDL	Interactive Data Language
IDP	Interplanetary Dust Particles
IDR	Intermediate Data Record
IDRSPS	Intermediate Data Records Stripper Processing System
IDS	Instrument Data System
IDS	Interdisciplinary Scientist/Science
IDSRD	Investigation Description & Science Requirements Document
IDST	Instrument Development Science Team
IDT	Instrument Development Team
IDTL	Instrument Development Team Leader
IE	Instrument Engineer
IEB	Instrument Expanded Block
IESD	Internal Electrostatic Discharge
IEU	Image Emulation Unit
IF	Intermediate Frequency
IFC	In-flight Calibration
IFM	Interface Module
IFOV	Instantaneous Field of View

IFRB	Interface Failure Review Board
IFSI	Istituto di Fisica dello Spazio Interplanetario (Institute for Interplanetary Space Physics, Italy)
IG	Ion-Grid
IGAP	Imaging in the Ring Gap
IID	Impact Ionization Detector
IIT	Impact Ionization Target
IK	Instrument Kernel
ILAN	Institutional Local Area Network
ILD	Interline Delay
ILR	Inner Lindblad Resonance
IM	Injection Margin
IMF	Interplanetary Magnetic Field
IMG	Imaging (Sciences Node)
IMP	Interface Management Plan
IMP	Internal Management Plan
IMS	Ion Mass Spectrometer
INAF	Istituto Nazionale di Astrofisica (National Institute for Astrophysics, Italy)
INCA	Ion and Neutral Camera
IND	Indication
IND	Interplanetary Network Directorate (formerly TMOD)
INFOCOM	Dipartimento di Scienza e Tecnica dell'Informazione e della Comunicazione (Department of Science and Technology of Information and Communications, Italy)
INMS	Ion and Neutral Mass Spectrometer
INPE	Instituto Nacional de Pesquisas Espaciais (National Institute for Space Research, Portugal)
InSB	Indium Antinomite
Instr	Instrument
INT	Integration
INTA	Instituto Nacional de Técnica Aeroespacial (National Institute of Aerospace Technology, Spain)
INU	Inertial Navigation Unit
IO	Instrument Operations
IOI	Instrument Operations Input
IOI	Instrument Operations Interface

IOM	Interoffice Memorandum
ION	INMS Operations Network
IORAM	Input-Output Read Only Memory
IOS	Instrument Operations System
IOU	Input/Output Unit
IOWG	Instrument Operations Working Group
IP	Implementation Plan
IP	Integration Period
IPSD	Interface Planning and Scheduling Document
IPS-Inc.	Innovative Productivity Solutions Inc.
IPT	Io Plasma Torus
IR	Independent Review
IR	Infrared
IRR	Infrared Radiometer
IR/UV	Infrared/Ultraviolet
IRAM	Institut de Radio Astronomie Millimétrique (Millimeter Radio Astronomy Institute, France)
IRD	Interface Requirements Document
IRE	Inertial Reference Electronics
IRF	Institutet för rymdfysik (Institute of Space Physics, Sweden)
IRI	Inertial Reference Interface
IRIS	Infrared Interferometer Spectrometer
IRR	Initial Requirements Review
IRSPS	International Research School of Planetary Sciences
IRT	Independent Review Team
IRU	Inertial Reference Unit
IRUB	Inertial Reference Unit B
IS	Investigation Scientist
ISA	Incident Surprise Anomaly
ISAS	Institute of Space and Astronautical Science
ISB	Intra System Bus
ISBC	Inter-Subassembly Bus Chip
ISD	Interstellar Dust
ISE	Ion Source Enclosure

ISEE	International Sun-Earth Explorer
ISFD	Integrated Software Functional Design/Diagram
ISFRD	Instrument System Functional Requirements Document
ISLR	Integrated Sidelobe Ratio
ISM	Interstellar Medium
ISMF	Interstellar Magnetic Field Frame
ISO	International Organization for Standards
ISO	Infrared Space Observatory
ISOE	Integrated Sequence of Events
Isp	Specific Impulse
ISRO	Indian Space Research Organization
ISS	Imaging Science Subsystem
ISSPT	Imaging Science Subsystem Pre-commanding Tool
IST	Imaging Science Team
IST	Institutional Support Team
IST	Integrated System Test
ISTS	Inner Structure Subsystem
ISWG	Icy Satellites Working Group
IT	Integrated Timeline
IT	Information Technology
ITAR	International Traffic in Arms Regulation
ITL	Integrated Test Laboratory
ITO	Indium Tin Oxide
ITSDB	Information Technology Security Database
ITSR	Integration and Test Status Review
IUS	Inertial Upper Stage
IVD	Inertial Vector Definition
IVP	Inertial Vector Propagator
IVT	Interrupt Vector Table

J

JAEA	Japan Aerospace Exploration Agency
JFET	Junction Field Effect Transistor
JGA	Jupiter Gravity Assist
JHU	Johns Hopkins University

JHU/APL	Johns Hopkins University Applied Physics Laboratory
JPEG	Joint Photographic Experts Group
JPL	Jet Propulsion Laboratory
JSC	Johnson Space Center
JSWG	Joint Science Working Group
JUNOCam	Juno Observing program
JWG	Joint Working Group
JWST	James Webb Space Telescope

K

K	Boltzmann's Constant
Ka-EX	Ka-Band Exciter
KaO	Ka-Band Downlink
KaT	Ka-band Translator
Ka-Tr	Ka-Band Translator
Ka-TWTA	Ka-Band Traveling Wave Tube Amplifier
KBO	Kuiper Belt Object
kbps	Kilobits Per Second
KBr	Potassium Bromide
keV	Kiloelectron Volt
KEX	Ka Band Exciter
KFKI	Kuratorium für Forschung im Küsteningenieurwesen (Research Institute for Particle and Nuclear Physics, Hungary)
kg	Kilograms
kHz	Kilohertz
km	Kilometer
km/s	Kilometer Per Second
KPT	Kinematic Prediction Tool
KSC	Kennedy Space Center

L

L	Launch
L/V	Launch Vehicle
LA	Launch Approval
LAMP	Lyman-Alpha Mapping Project
LAN	Local Area Network
LANL	Los Alamos National Laboratory

LASP	Laboratory for Atmospheric and Space Physics
LCE	Launch Complex Equipment
LCP	Left-Hand Circularly Polarized
LDAP	Lightweight Directory Access Protocol
LED	Light-Emitting Diode
LEF	Linear Electric Field
LEM	Lower Equipment Module
LEMMS	Low Energy Magnetospheric Measurement Subsystem
LEO	Low Earth Orbit
LeRC	Lewis Research Center
LET	Linear Energy Transfer
LF&S	Launch Facilities and Support
LFE	Low Frequency Electronics
LFE	Low Frequency Extension
LFH	Low Frequency Harmonics
LFR	Low Frequency Receiver
LGA	Low-Gain Antenna
LHCP	Left-Hand Circular Polarization
LILT	Low Intensity, Low Temperature
LISM	Local Interstellar Medium
LIVPUDWG	Live Inertial Vector Propogator Update Working Group
LLBL	Low-Latitude Boundary Layer
LMB	Live Movable Block
LNA	Low-Noise Amplifier
LO	Local Oscillator
LOS	Line-of-Sight
LOS	Loss of Signal
LP	Langmuir Probe
LPL	Lunar and Planetary Laboratory
LPLV	Low Pressure Latch Valve
LPPP	Low Precision Pointing Platform
LPT	Linear Prediction Theory
LR	Launch Recommendation
LR	Low Rail

LRD	Lightning and Radio Emission Detector
LRO	Lunar Reconnaissance Orbiter
LRP	Low-Rate Processor
LRR	Launch Readiness Review
LS	Least-Square
LS8B	Least-Significant 8-Bits
LSB	Least Significant Bit
LSF	Line Spread Function
LSI	Large Scale Integrated
LSK	Leap Seconds Kernel
LSW	Least Significant Word
LT	Local Time
LTE	Local Thermodynamic Equilibrium
LTL	Laser Time Line
LTS	Laboratory Test Set
LUB	Live Update Block
LUD	Live Update
LUT	Look-Up Table
LV	Latch Valve
LV	Launch Vehicle
LV	Low-Voltage
LVA	Launch Vehicle Adapter
LVCR	Launch Vehicle Contingency Reserve
LVDT	Linear Variable Differential Transformer
LVDT	Linear Variable Displacement Transformer
LVMP	Launch Vehicle Mission Peculiar
LVPS	Low Voltage Power Supply
LVS	Launch Vehicle System
LWRHU	Light Weight Radioisotope Heater Unit

M

m/s	Meter Per Second
M34	Madrid 34
mA	Milli-Amp
MAC	Magnetometer Alignment Coil

MAC	Mass Acceleration Curve
MAG	Magnetic Field Investigation
Mag	Magnetics
MAG	Magnetometer
MAM	Mission Assurance Manager
MAP	Mission Activity Profile
MAPEX	Map Expansion
MAPS	Magnetospheres and Plasma Science
MAS	Maneuver Automation Software
max	Maximum
Mb	Megabits
MBI	Multi-Beam Imaging
MC	Map Compiler
MCA	Master Clock Assembly
MCC	Magnetometer Calibration Coil
MCD3	Maximum-likelihood Convolutional Decoder version 3
MCDS	Multi-Interface Circuit Data Sheet
MCI	Measurement Cycle Interrupt
MCP	Microchannel Plate
MCS	Media Calibration System
MCS	Multi-mission Command System
MDAS	Mission Control, Data Management & Accountability, Spacecraft Analysis Subsystem
MDDA	Mini Dual Drive Actuator
MDE	Mechanism Drive Electronics
MDP	Maximum Design Pressure
MDP	Mission Design Panel
MDSCC	Madrid Deep Space Communications Complex
MDU	Master Data Unit
ME	Main Electronics
ME	Main Engine
MEA	Main Engine Actuator
MEA	Main Engine Assembly
MEA	Main Engine A

MEB	Main Engine B
MEBP	Main Engine Base Plate
MEC	Main Engine Cover
MECO	Main Engine Cut Off
MEPU	Main Engine Pre-aim Utility
MER	Mars Exploration Rovers
MERLOT	Multimedia Educational Resource for Learning and Online Teaching
MES	Main Engine Start
MET	Mission Elapsed Time
METCM	Main Engine Trajectory Correction Maneuver
MEU	Main Electronics Unit
MEV	Main Engine Valve
MEVD	Main Engine Valve Driver
MEVDA	Main Engine Valve Drive Assembly
MEVDE	Main Engine Valve Drive Electronics
MFG	Manufacturer
MFILE	Mnemonic Command File
MFR	Medium Frequency Receiver
MGD	Mission GDS Deployment (formerly CAT Team)
MGDS	Multi-Mission Ground Data System
MGL	Minimum Gain Level
MGN	Magellan
MGSE	Mechanical Ground Support Equipment
MGSS	Multi-Mission Ground Data System and Services
MHD	magnetohydrodynamic
MHW	Multi-Hundred Watt
MHz	Mega-Hertz
MICD	Mechanical Interface Control Drawing
MIF	Micrometeoroid Induced Failure
MIL-71	Merritt Island Launch Annex
MILA	Merritt Island Launch Area
MIL-STD	Military Standard
MIM	Mission Interface Manager
MIMI	Magnetospheric Imaging Instrument

Min	Minimum
MIP	Mission Integration Panel
MIPL	Multi Mission Image Processing Laboratory
MIPS	Million Instructions Per Second
MIPS	Multi-mission Image Processing System
MIPS	Million Instructions Per Second
MIR	Mid Infrared
MIRIS	Modified Infrared Interometer Spectrometer
MIRO	Microwave Instrument for the Rosetta Orbiter
MLI	Multi-Layer Insulation
MM	Mission Module
mm/s	Millimeters Per Second
MMAC	Multi Mass Acceleration Curve
MMC	Martin Marietta Corporation
MMCM	Multi-Mission Command
MMECDR	Multi-mission Expanded Channelized Data Record
MMH	monomethylhydrazine
MMII	Mariner Mark II
MMR	Monthly Management Review
mNm	Milli-Newton-Meters
MNOS	Metal Nitride Oxide Semiconductor
MO	Mars Observer
MO&DA	Mission Operations and Data Analysis
MOA	Memorandum of Agreement
MOA	Mission Operations Assurance
MOAM	Mission Operations Assurance Manager
Mod	Module
MODB	Mission Operations Data Base
MOIF	Moment of Inertia Factor
MON	Mixed Oxides of Nitrogen
MON	Monitor
MONTE	Mission Analysis, Operations, and Navigation Toolkit Environment
MOP	Maximum Operating Pressure
MOPS	Maneuver Operations Program Set

MOR	Mission Operations Review
MOS	Metal Oxide Semiconductor
MOS	Mission Operations System/Subsystem
MOS	Mission Operations Support
MOS	Mission Operations System
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
MOSO	Multi-mission Operations System Organization
MOU	Memorandum of Understanding
MP	Mission Plan
MP	Multiplier
MP	Mission Planning
MPAe	Max-Planck-Institut für Aeronomie (Max Planck Institute for Astronomy, Germany)
MPD	Mono-Propellant Driver
MPI	Max Planck Institute
MPI/K	Max Planck Institute for Kernphysik (Max Planck Institute for Nuclear Physics, Germany)
MPLV	Monopropellant Tank Assembly
MPM	Mass Properties Model
MPS	Memory Power Subassembly
MPS Editor	Mission Planning and Sequencing Editor
MPT	Mission Planning Team
MPVT	Mission Planning Virtual Team
MR	Microwave Receiver
mrad	Microradians
Mrad	Milliradians
MRB	Material Review Board
MRD	Mission Requirements Document
MRO	Memory Readout
MRR	Mission Requirements Request
MRRD	Mission Requirements Reference Document
MRS	Microwave Remote Sensing
MRSS	Multi-Mission Resource Scheduling Services
ms	Microsecond
mS	Millisecond

MSA	Mission Support Area
MSAR	Microwave Spectrometer and Radiometer
MSAS	Multimission Spacecraft Analysis Subsystem
MSB	Most Significant Bit
MSC	Magnetic Search Coil
MSC/LP	Magnetic Search Coil/Langmuir Probe
Msec	.001 second
MSI	Medium Scale Integration
MSPSA	Missile System Prelaunch Safety Approval
MSPSP	Missile Safety Prelaunch Safety Package
MSPT	Monopropellant System Performance Tool
MSS	Mechanisms Subsystems
MSS	Mission Sequence Subsystem
MSSO	Mission Support & Services Office
MSTI	Miniature Seeker Technology Integration
MSW	Most Significant Word
MTA	Monopropellant Tank Assembly
MTBF	Mean Time Between Failures
MTF	Modulation Transfer Function
MTP	Microwave Temperature Profiler
MTS	Mission Telemetry System
MUV	Middle Ultraviolet
mV	Milivolt
MVEA	Majority-Voted Error Amplifier
mW	.001 Watt
MWS	MGSS Web Servers

N	
N	Newton
n	number
N/A	Not Applicable/Available
N/R	No Ranging
N ₂ H ₂	Hydrazine
NA	Nested Acronym
NAC	Narrow Angle Camera

NACE	Narrow Angle Camera Electronics
NACH	Narrow Angle Camera Head
NaCl	Sodium Chloride
NAD	Network Advisory
NAIF	Navigation and Ancillary Information Facility
NASA	National Aeronautics and Space Administration
NASCOM	NASA Communications Network
NASDA	National Space Development Agency (Japan)
NAT	Nitric Acid Trihydrate
NAV	Navigation
NAV	Navigation Team
NB	narrowband
NBS	National Bureau of Standards
NCASE	Number Case (number of long-term Monte Carlo cases)
NCH	Narrow Angle Camera Head
NCI	Narrow Angle Camera Interface
NCRX	Number Crossing (number of Earth torus encountered in long-term Monte Carlo cases)
NDE	Non-Destructive Evaluation
NEA	Noise Equivalent Angle
NEAR	Near Earth Asteroid Rendezvous
NEI	Non Explosive Initiator
NEP	Noise Equivalent Power
NEP	Nuclear-Electric Population
NEPA	National Environmental Policy Act
NERT	Near Real Time
NESC	NASA Engineering and Safety Center
NESC	National Electrical Safety Code
NESR	Noise Equivalent Spectral Radiance
NFS	Network File System
NGA	Non-Gravitational Accelerations
NGIMS	Neutral Gas and Ion Spectrometer
NGSS	National Next Generation Science Standards
NH ₃	Ammonia

NHB	NASA Handbook
NIMS	Near Infrared Mapping Spectrometer Subsystem
NIR	Near Infrared
NIRS	Near Infrared Spectrometer
NISN	NASA Integrated Services Network
NIST	National Institute of Standards and Technology
nKOM	Narrowband Kilometer
NLR	Netherlands Institute for Space Research
NLS	National Launch System
NMC	Network Monitor and Control
NMOS	N-Channel Metal Oxide Semiconductor
NMSU	New Mexico State University
NOA	Network Operations Analyst
NOA	Notice of Availability
NOCC	Network Operations Control Center
NOI	Notice of Intent
Nom	Nominal
Non-oper	Non-operating
NOP	Network Operations Plan
NOPE	Network Operations Project Engineer
NP	Navigation Plan
NPD	NASA Policy Directive
NQR	NASA Quarterly Review
NR	Navigation Requirements
NR	Norsk Romsenter (Norwegian Space Centre, Norway)
NRAO	National Radio Astronomy Observatory
NRZ	Non-Return-to-Zero
NSDA	Non Science Data Archive
NSE	Northern Spring Equinox
NSI	NASA Science Internet
NSI	NASA Standard Initiator
NSM	Northern Summer Mission
NSO	Nuclear Safe Orbit
NSP	Network Simplification Project

NSS	NOCC Support System
NSSDC	National Space Science Data Center
NSTA	National Science Teachers Association
nT	Nano Tesla
NTK	NOCC Tracking Subsystem
NTO	Nitrogen Tetroxide
NUV	Near Ultraviolet
NVR	Non-Volatile Residue
NXT	NASA Standard X-Band Transponder
O	
O	Optional
O/P	Output
OA	Optics Assembly
OAC	Olin Aerospace Corporation
OACT	Office of Advanced Concepts and Technology
OBDH	On-Board Data Handling
OBPSM	Observatoire de Paris or Observatoire de Paris-Meudon (Paris Observatory, France)
OCI	Operator Control Input
OCIO	Office of the Chief Information Officer
OCT	Operations Control Team
OD	Orbit Determination
OD	Outer Diameter
ODD	Observation Design Display
ODM	Orbit Deflection Maneuver
ODP	Orbit Determination Program
ODR	Original Data Record
ODT	Orbiter Delay Time
OED	Orthogonal Electric Dipoles
OIA	Operational Interface Agreement
OIT	Operational Interface Test
Olog	operational log
OLR	Open-Loop Receiver
OMP	Observatory Midi-Pyrenees

OMSC	Orthogonal Magnetic Search Coils
ONERA	Office National d'Études et de Recherches Aérospatiales (National Office of Aérospatial Studies and Research, France)
ONIPS	Optical Navigation Image Processing System
ONP	Optical Navigation Program
OP AMP	Operational Amplifier
OPA	Optics Assembly
OPA	Optical Pallet Assembly
OPAG	Outer Planets Assessment Group
OPE	Orbiter Purge Equipment
Oper	Operating
OpModes	
OPNAV	Optical Navigation Operational Modes
OPPC	On-Point-Phase-Calibration
OPS	Operations
OPTG	Orbit Propagation and Timing Geometry File
Orb	Orbiter
ORB	Orbiter
ORR	Operations Readiness Review
ORS	Optical Remote Sensing
ORT	Operational Readiness Test
OS	Open Source
OSC	Office of Space Communications
OSF	Office of Space Flight
OSI	Open Source Ion
OSNB	Open Source Neutral Beam
OSNT	Open Source Neutral Thermal
OSP	Orbit Specific Plan
OSS	Office of Space Science
OSSA	Office of Space Science and Applications
OSSI	Office of Space Science and Instruments
OST	Operations Science Team
OST	Orbiter Science Team
OTB	Orbit Trim Backup

OTL	Operations Technical Lead
OTM	Orbit Trim Maneuver
OTP	Orbit Trim Primary
OTP	Orbit Trim Maneuver Primary Pass
OUT	Outreach (Outreach Team)
OWLT	One-Way Light Time

P	
P	Perihelion
P	Preliminary
P	Pressure
P	Proposal
P&S	Planning and Sequencing
P/FR	Problem Failure Report
P/S	Power Supply
PA	Product Assurance
PA	Proton Affinities
PAA	Probe Aspect Angle
PAD	Project Authorization Document
PAH	Polycyclic Aromatic Hydrocarbon
PAL	Programmable Array Logic
PAM	Payload Assist Module
PAM-S	Payload Assist Module-Special
PAP	Privileged Action Program
PAR	Perimeter Access Request
PAT	PSG Automation Tool
PB	Playback
PB&RTE	Playback and Realtime Engineering
PC	Personal Computer
PC	Photoconductive
PC	Pressure Chamber
PC	Printed Circuit
PCA	Power Control/Converter Assembly
PCA	Pressurant Control Assembly
PCCB	Project Change Control Board

PCD	Project Change Directive
PCD	Physical Contents Document
PCE	Power Conditioning Equipment
PCE	Power Control Electronics
PCK	Planetary Constants Kernel
PCM	Pulse-Code Modulation
PCO	Probe Checkout
PCR	Project Confirmation/Capability Review
PCU	Power Converter/Conversion Unit
PD	Project Document/Documentation
PD	Proportional and Derivative
PDA	Power Distribution Assembly
PDB	Project Data Base
PDD	Program Design Document
PDF	Portable Document Format
PDF	Probability Density Function
PDF	Printer Description File
PDMP	Project Data Management Plan
PDR	Preliminary Design Review
PDRS	Probe Data Relay Subsystem
PDS	Planetary Data System
PDT	Pointing Design Tool
PDU	Power Distribution Unit
PEF	Predicted Event File
PEM	Periodic Engineering Maintenance
PENL	Comet Penetrator Lander
PEQR	Project Environmental Qualification Review
pF	picoFarad
PF	Protoflight
PF(i)	Probability of Failure for the ith failure mode
Pfd	Picofarad
PFM	Protoflight Model
PFR	Problem/Failure Report
PFU	Protoflight Unit

PGT	Predict Generation Tool
PGT	Propellant Gauging Test
PHSF	Payload Handling and Servicing Facility
PHSS	Probe Harness Subsystem
PI	Principal Investigator
PI	Probability of Earth Impact
PI	Proportional and Integral
PI/CRX	Probability of Earth Impact/Crossing (spacecraft passing through Earth's torus)
PI/F(i)	Probability of Earth Impact/Failure for the ith failure mode (trajectory occurrence)
PIA	Propellant Isolation Assembly
PIDDP	Planetary Instrument Definition and Development Program
PIDDR	Preliminary Instrument Functional/Interface Requirements Design and Review
PIE	Pre-Integration Event
PIM	Periodic Instrument Maintenance
PIO	Public Information Office
PIRDR	Preliminary Interface Requirements and Design Review
PIRLS	Probe IR Laser Spectrometer
PIT	Project Interface Test
PIU	Pixel input unit
PJR	PeriJove Raise
PLD	Programmable Logic Drive/Payload
PLF	Payload Fairing
PLL	Phase-Locked Loop
PLPP	Pre/Post Launch Planetary Protection
PLS	Plasma Spectrometer
PM	Project Manager
PM	Periodic Microstructure
PM	Prime Mission
PMA	Propulsion Module Assembly
PMC	Probe Mission Complete/Completion
PMCB	Propulsion Module Central Body
PMD	Propulsion Management Device
PMEM	Parameter Memory
PMR	Project Management Report

PMS	Power Management System
PMS	Propulsion Module Subsystem
PMSEA	Propulsion Module Subsystem, Electronics Assembly
PMT	PhotoMultiplier Tube
PNR(i)	Probability of No Recovery (given the failure mode and the time of impact)
POC	Probe Operations Center
POE	Probe Orbiter Earth
POP	Project Operating Plan
POR	Power On Reset
POST	Proximal Orbit Science Team
POSW	Probe On-Board Software
PP	Project Plan
PPC	Power PC
PPF	Payload Processing Facility
PPF/HPF	Payload Processing Facility/Hazardous Processing Facility
PPI	Planetary Plasma Interactions
PPL	Priority Playback List
ppm	Parts Per Million
PPN	Parametrized Post-Newtonian
PPO	Pressed Plutonium Oxide
PPO	Planetary Period Oscillation
PPP	Planetary Protection Plan
PPRD	Project Policies & Requirements Document
PPS	Power & Pyrotechnics Subsystem
PPSS	Power & Pyrotechnic Subsystem Simulator
PR	Preship Review
PR	Pressure Regulator
PRA	Planetary Ranging Assembly
PRA	Probe Relay Antenna
PRA	Planetary Radio Astronomy
PRB	Probe
PRD	Program Requirements Document
PRG	Program
PRI	Pulse Repetition Interval

PRI	Paper Records Inventory
PRJ	Project
PRL	Probe Relay Link
PRM	Probe Release Maneuver
PRM	Periapsis Raise Maneuver
PROM	Programmable Read-Only Memory
Propul	Propulsion
PRR	Preliminary Requirements Review
PRR	Project Requirements Review
PRS	Problem Reporting System
PRSR	Portable RSR
PRT	Platinum Resistance Thermometer
PRWS	Plasma and Radio Wave Spectrometer
PS	Participating Scientist
PS	Project Scientist
PS	Project Start
PSA	Probe Support Avionics
PSCFL	Preliminary Safety Critical Function List
PSCN	Probe Support Communications Network
PSD	Power Spectral Density
PSE	Probe Support Equipment
PSF	Point Spread Function
PSG	Project Science Group
psi	Pounds Per Square Inch
PSI	Pressure Systems Inc.
PSIG	Pounds Per Square Inch Gauge
PSIV	Preliminary Sequence Integration and Validation
PSK	Phase-Shift Keying
PSL	Project Software Library
PSLA	Program Service Level Agreement
PSM	Power Supply Module
PSR	Project Status Review
PSS	Probe Support Subsystem
PSS	Project Support Subsystem

PSSR	Plasma Spectroscopy/Sounder Receiver
PST	PI Science Team
PSU	Power Supply Unit
PSU	Pyro Switching Unit
PTM	Probe Targeting Maneuver
PTM	Proof Test Model
Pu	Plutonium
Pu-238	Plutonium-238
PUI	Pick-Up Ions
PV	Photovoltaic
PV	Potential Vorticity
PV	Pyro Valve
PVDF	Polyvinylidene Fluoride
PV-ONMS	Pioneer Venus Orbiter Neutral Mass Spectrometer
PVO	Pioneer Venus Orbiter
PWA	Plasma Wave Analyzer
PWA	Permittivity Wave and Altimetry
PWB	Printing Wiring Board
PWR	Power

Q

QA	Quality Assurance
QAI	Quality Assurance Instruction
QBO	Quasi-Biennial Oscillation
QC	Quality Control
QE	Quantum Efficiency
QFD	Quality Function Deployment
QFS	Qualification & Flight Spare
QMA	Quadrupole Mass Analyzer
QMR	Quarterly Management Review
QP	Quasi-Periodic
QPM	Quarterly Progress Meeting
QQC	Quantity, Quality, and Continuity
QQO	Quasi-Quadrennial Oscillation
QT	Quantum Throughput

Qty	Quantity
Qual	Qualify/Qualification
QXO	Quasi-Uncertain Time Period for Saturn's atmospheric-Oscillations

R

R&QA	Reliability and Quality Assurance
R _J	Radius of Jupiter
R _S	Radius of Saturn
R/CR	Review/Certification Requirements
R/T	Real-Time
RA	Right Ascension
RA/Dec	Right Ascension and Declination
RACS	Radiation Analysis Completion Statement
RAD	Radiation (absorbed radiation in Silicon)
RADAR	Titan Radar Mapper
RAL	Rutherford Appleton Laboratory
RAM	Random Access Memory
RAMPAGE	Remote Access Multi-Mission Processing & Ground
RAR	Risk Assessment Review
RAS	Radar Altimeter Science
RAS	RADAR Analysis Software
R-Axis	Along the anti-sun line
RB	Repaired By
RBI	Residual Bulk Image
RBOT	Reaction-Wheel Bias Optimization Tool
RCM	Rice Convection Model
RCP	Right-Hand Circularly Polarized
RCP	Right Circular Polarization
RCR	Requirements Certification Review
RCS	Reaction Control Subsystem
RCT	Reaction Control Thruster
RCU	Reset Control Unit
RCVR	Receiver
RD	Reference Document
RDD	Release Description Document

RDM	Radiation Design Margin
RDR	Reduced Data Record
REA	Rocket Engine Assembly
REL	Release
REL timed	Relative Timed
REQ	Requirement
REU	Refurbished Engineering Unit
REU	Remote Engineering Unit
REV	Review
Rev	Revision
Rev	Same as orbit
RF	Radio Frequency
RFE	Radio Frequency Electronics
RFE	Receiver Front End
RFEA	Radio Frequency Electronics Assembly
RFES	Radio Frequency Electronics Subsystem
RFI	Radio Frequency Interference
RFIS	Radio Frequency Instrument Subsystem
RFP	Request for Proposal
RFS	Radio Frequency Subsystem
RFSTLC	Radio Frequency Subsystem Tracking Loop Capacitor
RG	Ring-Grazing
RH	Relative Humidity
RH	Right-Handed
RHCP	Right-Hand Circular Polarization
RHM	RWA Hardware Manager
RHU	Radioisotope Heater Unit
RHU	Radioactive Heating Unit
RIE	Reference Interferometer Electronics
RIMS	Retarding Ion Mass Spectrometer
RITO	Refraction Index of Titan Ocean
R _J	Jupiter Radii
RKA	Roskosmos (Russian Federal Space Agency)
RLPSE	Remote Launch Pad Support Equipment

rms	Root Mean Square
RMSS	RADAR Mapping Sequencing Software
RNG	Random Number Generator
ROC	Remote Operations Center
ROD	Record of Decision
RODS	Remote Operating Data System
ROE	Real-Time Operations Element
ROM	Read Only Memory
ROM	Rough Order of Magnitude
RORSAT	Radar Ocean Reconnaissance Satellite
RotR	Rules of the Road
RP	Radio Propagation
RPA	Retarding Potential Analyzer
RPA/LP	Retarding Potential Analyzer/Langmuir Probe
RPC	Ring Plane Crossing
RPC	Ring Plasma Cavity
RPF	Resource Prediction File
RPIF	Regional Planetary Image Facility
RPM	Revolution Per Minute
RPWS	Radio and Plasma Wave Science
RPX	Ring Plane Crossing
RRL	Radio Relay Link
RRP	Receiver and Ranging Processor
RS	Radio Science
RS	Radius of Saturn
R-S	Reed-Solomon Encoding Method
R _s	Saturn Radii
RS & QA	Reliability, Safety & Quality Assurance
RSA	Roskosmos (Russian Federal Space Agency)
RSDL	Reed-Solomon Downlink
RSP	Remote Sensing Pallet/Platform
RSR	Radio Science Receiver
RSS	Radio Science Subsystem
RSS	Root Sum Squares

RSSG	Radio Science Systems Group
RST	Radio Science Team
RT	Real Time
R-T	Real Time
RT	Remote Terminal
RTA	Recharge Tank Assembly
RTC	Real-Time Command
RTCIU	Remote Terminal Communication Interface Unit
RTD	Resistive Thermal Device
RTDT	Remote Terminal Descriptor Table
RTE	Real Time Engineering
RTE&SPB	Real-Time Engineering and Science Playback
RTG	Radioisotope Thermoelectric Generator
RTI	Real Time Interval/Interrupt
RTIOU	Remote Terminal Input-Output Unit
RTIU	Real Time Interface Unit
RTIU	Remote Terminal Interface Unit
RTL	Round-Trip Light Time
RTO	Real-Time Operations
RTSIM	Remote Terminal Simulator
RTX	Real Time Executive
RUSO	Receiver Ultra Stable Oscillator
RVF	Resource Verification File
RW	Reaction Wheel
RW&R	Reading, Writing, & Rings
RWA	Reaction Wheel Assembly
RWAC	Reaction Wheel Attitude Control
RWE	Reaction Wheel Electronics
RWG	Ring Working Group
RWI	Reaction Wheel Interface
RWM	Reaction Wheel Mechanism
RWX	Reaction Wheel Extension

S

S	Second
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S	Signatures
S&A	Safe and Arm
s	seconds
S&ER	Science and Engineering Readout/Rate
S/A	Safe-Arm Circuit
S/C	Spacecraft
S/S	Subsystem
S/W	Software
SA	System Administrator
SA File	Science Activities File
SAB	SAR Altimeter Burst
SADC	Science Analog-to-Digital Converter
SAE	Safety Engineer
SAEF	Spacecraft Assembly and Encapsulation Facility
SAF	Spacecraft Assembly Facility
SAH	System Assembly Hardware
SAM	Saturn Atmosphere Mapper
SAM	Spectrum Analyzer Module
SAM-RC	Structures and Materials (Safety) Review Committee
SAMWG	Saturn Atmospheric Modeling Working Group
SAND	System for Archival of Navigation Data
SAO	Semi-Annual Oscillation
SAP	Science Allocation Panel
SAPE	Science and Project Engineering
SAR	Safety Analysis Report
SAR	Synthetic Aperture Radar
SASF	Spacecraft Activity Sequence File
SASW	Support Avionics Software
SAT	Select-at-Test
SAUL	Science and Uplink
SAWG	Science Atmospheric/Archive Working Group
S-Band	Radio Frequencies between 2 and 4 GHz
SBC	Single Board Computer
SBE	Single-Bit Error

SBN	Small Bodies Node
SBP	Software Capabilities Build Plan
SBT	S-band Transmitter
SC	Science Coordinator
SC	Spacecraft
SC	Science Confirmation
SCA	Subsystem Control and Monitor Assembly
SCART	Spacecraft Articulation
SCAS	Science Calibration Subsystem
SCAT	Scatterometer
sccm	Standard Cubic Centimeters Per Minute
SCCS	Source Code Control System
SC-cut	Stress Compensated Cut
SCDT	Spacecraft Design Team
SCE	Solar Conjunction Experiment
SCET	Spacecraft Event Time
SCFL	Safety Critical Function List
Sci	Science
SCI	Science Subsystem
SCI	Science Teams
SCI & MP	Science & Mission Planning
SCIOP	Science Operations
SCLK	Spacecraft Clock
SCM	Software Configuration Manager
SCMF	Spacecraft Message File
SCMG	Software Configuration Management Group
SCML	System Configuration Management Library
SCMP	Software Configuration Management Plan
SCMS	System Configuration Management Subgroup
SCO	Spacecraft Operations
SCOE	Special-Purpose Checkout Equipment
SCR	Sequence Change Request
SCR	Silicon Controlled Rectifier
SCR	Software Change Request

SCS	Spacecraft System
SCR	Sequence Change Request
SCRAM	Sequence Change Request Approval Meeting
SCSI	Standard Computer System Interface
SCT	Spacecraft Team
SCU	Sequence Control Unit
SDB	Science Data Buffer
SDD	Software Design Document
SDD	System Design Document
SDF	Supplementary Data File
SDG	System Design Group
SDO	Solar Dynamics Observatory
SDR	Software Design Review
SDR	System Design Review
SDR	Software Development Requirement
SDSP	Software Development Standard Processes
SDT	Sequence Design Team
SE	Support Equipment
SE	System Engineer
SE	Support Equipment
SE&C	System Engineering and Coordination
SEB	Single Event Burnout
SEC	Second
SEC	Systematic Error Correction
SECDED	Single Error Correction and Double Error Detection
SED	Saturn Electrostatic Discharge
SED	Spin Eject Device
SEDR	Supplementary Experiment Data Record
SEE	Single Event Effects
SEEGA	Solar-Electric Earth Gravity Assist
SEF	Spacecraft Events File
SEFH	Standard Cubic Per Hour
SEG	Segment
SEG	Sequence of Events Generator/Generation

SEGR	Single Event Gate Rupture
SEI	Software Engineering Institute
SEL	Single Event Latchup
SEL	Selection
SEMPA	Scanning Electron Microscope and Particle Analyzer
SENR	Saturn Environment Review
Sep	Separation
SEP	Solar-Electric Propulsion
SEP	Solar Energetic Particle
SEP	Sun-Earth-Probe
SEPS	Separation Subsystem
SEQ	Sequence
SEQ_GEN	Sequence Generator
SEQGEN	Sequence Generator
SEQTRAN	Sequence Translator
SER	Safety Evaluation Report
SET	Single-Event Transient
SETI	Search for Extraterrestrial Intelligence
SEU	Single Event Upset
SFAD	Scientist for a Day
SFDU	Standard Format Data Unit
SFDUGUI	Standard Format Data Unit Graphical User Interface
SFOC	Space Flight Operations Center
SFOF	Space Flight Operations Facility
SFOP	Space Flight Operation Plan
SFOS	Space Flight Operations Schedule
SFP	System Fault Protection
SFRR	Spacecraft Functional Requirements Review
SFT	System Functional Test
S-G	Self-Gravity
SHE	Sensor Head Electronics
SI	Science Instruments
Si	Silicon
SI	Support Imaging

SID	Star ID
SIE	Sequence Integration Engineer
Sig	Signal
SiGe	Silicon-Germanium
SigEs	Significant Events Report
SIM	Science Instrument Manager
SIM	Sistema Interamericano de Metrologia (Inter-american Metrology System)
SIMS	Secondary Ion Mass Spectrometer
SINDA	Systems Improved Numerical Differencing Analyzer
SIP	Sequence Implementation Process
SIPL	SIP Lead
SIPS	Science Instrument Purge Subsystem
SIRD	Support Instrumentation Requirements Document
SIRTF	Space Infrared Telescope Facility
SIRU	Space Inertial Reference Unit
SIS	Software Interface Specification
SIT	Science Integrated Timeline
SITM	Spacecraft Integration & Test Manager
SITP	Subsystem Integration & Test Plan
SIV	Sequence Integration & Validation
SKR	Saturn Kilometric Radiation
SL	Selection Letter
SLATS	Solar Linear Array Technology System
SLI	side-looking imager
SLOC	Source Line of Code
SLS	Space Launch System
SLT	System Level Testing
SLT	Saturn Local Time
SM	Section Manager
SM	Solstice Mission
SM	Submodule
SMD	Science and Mission Design
SMD	Science Mission Directorate
SMDC	Shielded Mild Detonating Cord

SME	Scan Mechanism Electronics
SMP	Software Management Plan
SMP	Science Management Plan
SMR	Software Management Review
SMT	SSR Management Tool
SN	Serial Number
SNER	Science and Engineering
SNR	Signal-to-Noise Ratio
SNT	System Noise Temperature
SO	S-Band Downlink
SO	Science Operations
SOA	Science Opportunity Analyzer
SOD	Science Observation Design
SODB	Science Operations Data Base
SOE	Sequence of Events
SOH	Safety Operations Handling Document
SOHO	Solar and Heliospheric Observatory
SOI	Saturn Orbit Insertion
SOI/SOS	Silicon-on-Insulator/Silicon-on-Sapphire
SOIRD	Spacecraft Operations Interface Req. Document
SOLSTICE	Solar-Stellar Irradiance Comparison Experiment
SOP	Standard Operating Procedure
SOP	Science Operations Plan
SOPC	Science Operations and Planning Computer
SOPU	Science Observation Plan Update
SOS	Silicon-on-Sapphire
SOS	Solution Oriented Services
SOST	Satellite Orbiter Science Team
SOU	Sounder Mode
SOW	Statement of Work
SP	Safety Plane
SP	Sequence Program
SP	Science Planning
SPA	Software Product Assurance

SPAЕ	Software Product Assurance Engineer
SPAM	Science Planning Assessment (of the) Merge
SPAP	Software Product Assurance Plan
SPAPS	Subsystem Parts Allocation Planning Summary
SPASE	Software Product Assurance System Engineer
SPASS	Science Planning Attitude Strategy Spreadsheet
SPC	Science Program Committee
SPC	Signal Processing Center
SPDT	Single Pole Double Throw
SPE	Signal Processing Electronics
SPE	Sun Probe-Earth
SPE	Science Planning Engineer
SPE	Static Phase Error
SPF	Single Point Failure
SPICE	Spacecraft, Planet, Instrument, C-matrix, Events
SPICE	Superthermal Plasma Investigation of cometary Environments
SPIT	Sequence Process Improvement Team
SPK	Spacecraft and Planet Kernel (ephemeris data file)
SPL	Security Problem Log
SPLAF	Sequence Phase List of Ancillary Files
SPLAT	Science Planning Liens and Actions Table
SPOT	Science Planning and Operations Team
SPP	Sequence Planning Preview
SPRL	Space Physics Research Laboratory
SPS	Spacecraft Purge Subsystem
SPS	Service Preparation Subsystem
SPST	Science Planning & Sequence Team
SPT	Specific Performance Test
SPT	South Polar Terrain
SPVT	Science Planning Virtual Team
SQA	Software Quality Assurance
SQR	Spacecraft Qualification Review
SR	Safety Review
SR	Shunt Radiator

SR-90	Strontium-90
SRA	Shunt Regulator Assembly
SRAM	Static Random-Access Memory
SRC	Subreflector Controller
SRCR	Software Requirements and Certification Review
SRD	Science Requirements Document
SRDD	Software Release Description Document
SRE	Subsystem Reliability Engineer
SRM	Solid Rocket Motor
SRMU	Solid Rocket Motor Upgrade
SRR	Software Requirements Review
SRRD	Science Requirements Reference Document
SRTG	Simulated Radioisotope Thermoelectric Generator
SRU	Stellar Reference Unit
SS	Sun Sensor
SSA	Sun Sensor Assembly
SSAC	Space Science Advisory Committee
SSAK	Second Surface Aluminized Kapton
SSAN	Space Science and Applications Notice
SSASC	Space Science and Applications Steering Committee
SSCCB	Spacecraft System Change Control Board
SSD	Software Specifications Document
SSD	Solid State Detector
SSDPS	Solar System Data Processing System
SSE	Software System Engineer
SSE	Sun Sensor Electronics
SSEC	Solar System Exploration Committee
SSEF	Spacecraft Significant Events File
SSF	Spacecraft Sequence File
SSG	Sub Sequence Generation
SSH	Sun Sensor Head
SSHA	Sun Sensor Head Assembly
SSI	Space Science Institute
SSI	Spectral Signal Indicator

SSM	Spacecraft System Manager
SSM	System Software Manager
SSO	Sun-Synchronous Orbit
SSO	Systems Safety Office
SSP	Surface Science Package
SSPM	Software Specification and Procedures Manual
SSPS	Solid-State Power Switch
SSR	Solid-State Recorder
SSRIU	SSR Interface Unit
SSUP	Science and Sequence Update Process
SSWG	Satellite Surfaces Working Group
SSYSF	Subsystem Fail Flag
ST	Standard (JPL Specification)
ST	Straight Through
STATRJ	Station Polynomial File
STC	System Test Complex
STD	Standard
STE	System Test Equipment
STIS	Space Telescope Imaging Spectrograph
STM	Safe-To-Mate
STOR	System Test Operations Report
STP	Software Test Plan
STP	Solar Thermal Population
STPM	Structural/Thermal/Pyro Model
STRU	Structure Subsystem
STS	Space Transportation System
STSE	System Test Support Equipment
STV	Solar/Space Thermal Vacuum
SUPV	Science Uplink Verification
SUROM	Startup Read-Only Memory
SUROM	Start-up ROM
SV	Space Vehicle
SVDS	Satellite/Space Vehicle Destruct System
SVPR	Spacecraft Verification Plan Review

SVS	Simulation and Verification Services
SVT	Sequence Virtual Team
SVTL	Sequence Virtual Team Lead
SW	Software
SW CE	Software Cognizant Engineer
SW CogE	Software Cognizant Engineer
SW DR	Software Design Review
SW TE	Software Test Engineer
SW TM	Software Technical Manager
SWDR	Software Design Review
SWG	Science Working Group
SWG	Saturn Working Group
SWG	Segmentation Working Group
SWI&T	Software Integration & Test
SWICS	Solar Wind Ion Composition Spectrometer
SwRI	Southwest Research Institute
SWRR	Software Readiness Review
SWRR	Software Requirements Review
SWVDR	Software Version Delivery Review
SYS	Simulation & Verification Services
SYS	System Test

T

T&O	Test and Operations
T&OM	Test and Operations Manager
T	Tesla
T/C	Temperature Control
Ta	Tantalum
T-A	Titan A
TAG	Test Agency
TAMWG	Titan Atmospheric Modeling Working Group
TANK	Tanks Models
TAP	Technology and Applications Program
TAR	Tape Archive
T-AXIS	N cross R

TB	Test Bed
TB	Terabyte
TBC	Test Bed Converter
TBC	To Be Confirmed
TBD	To Be Determined/Defined
TBPR	Test Bed Plan Review
TBR	To Be Resolved
TBR	To Be Reviewed
TBS	To Be Supplied
Tc	Temperature Coefficient/Correction
TC STA	Test Conductor Station
TC	Telecommand
TC&DM	Telemetry, Command & Data Management
TCA	Thruster Cluster Assembly
TCA	Time of Closest Approach
TCA	Titan Closest Approach
TCD	Trajectory Characteristics Document
TCM	Temperature Control Model/Monitor
TCM	Trajectory Correction Maneuver
TCP/IP	Transmission Control Protocol/Internet Protocol
TCPS	Titan IV/Centaur Purge Subsystem
TCS	Telecommunications Subsystem
TCS	Temperature Control Subsystem
TCU	Telemetry Control Unit
TDA	Telecommunications and Data Acquisition
TDC	Time-to-Digital Converter
TDDS	Tracking Data Delivery Subsystem
TDL	Template Definition Language
TDM	Thermal Development Model
TDN	Temporal Dependence Networks
TDS	Telemetry Delivery System
TDS	Time Domain Sampler
TDS	Tracking & Data Acquisition System
TDS	Tracking and Data Services Element

TDS	Tracking and Data System
TDS	Telemetry Delivery and Storage
TDS	Telemetry Delivery System
TEA	Titan Exploration at Apoapsis
Telecom	Telecommunications
TEMP	Temperature Control Subsystem
Temp	Temperature
TF	Transfer Frame
TFE	Tetrafluoroethylene (Teflon)
TFP	Telecom Forecaster Predictor
Th	Thorium
THSS	Thermal Control Subsystem
TIA	Team Interface Agreement
TID	Total Ionizing Dose
TID	Time Insertion and Distribution
TIGAR	Telemetry Input Gap Analyzer & Reporter
TIMED	Thermosphere, Ionosphere, Mesosphere, Energetics and Dynamics
TIP	Target Interface Point
TIR	Thermal Infrared Radiometer
TIREX	Thermal Infrared Radiometer Experiment
TIS	Telemetry Input System
TIV	Titan IV
TJ	Temperature Junction
TKG PASS	Tracking Pass
TL	Team Leader
TL	Thermo luminescence
TL	Timeline
TLA	Three Letter Acronym
TLD	Thermo Luminescent Dosimeter
TLM	Telemetry
TLM	Telemetry Modulation
TLP	Telemetry Processor
TLV	Threshold Limit Value
TM	Team Member

TM	Technical Manager
TM	Telemetry
TM	Temperature Multiplying
TM	Traceability Matrix
TMC	Target Motion Compensation
TMC	Titan Meteorological Campaign
TMM	Thermal Mathematical Model
TMM	Thermal Math Model
TMO	Table Mountain Observatory
TMOD	Telecommunications and Mission Operations Directorate
TMP	Telemetry Processor Module
TMS	Telecommunications and Mission Services
TMU	Telemetry Modulation Unit
TO	Task Order
TOF	Time of Flight
TOF MS	Time-of-Flight Mass Spectrometry
TOL	Time Ordered Listing
TOL	Tolerance
TOP	Test Operations Plan
TOPEX	The Ocean Topography Experiment
TOR	Terms of Reference
TOST	Titan Observation Science Team
TOST	Titan Orbiter Science Team
TOT	Telemetry Output Tool
TP	Time of Periapsis
TPM	Telemetry Processor Module
TPM	Telemetry Propulsion Module
TPS	Third Party Software
TPV	Thermo Photovoltaic
TPW	True Polar Wander
TRACER	Tracing and Control of Engineering Requirements
TRK	Tracking
TRM	Titan Radar Mapper
TRSF	Test Results Summary Form

TS	Targeting Specification
TSAC	Tracking System Analytical Calibration
TSP	Twisted Shielded Pair
TSR	Technical Status Review
TSR	Technical Support Representative
TSS	Telecommunications Subsystem
TSSM	Titan Saturn System Mission
TST	Target & Star Tracker
TT	Turntable
TT&C	Telemetry Tracking and Command
TTACS	Test Telemetry & Command System
TTC	Tracking, Telemetry, & Command
TTC&DM	Telemetry, Tracking, Command & Data Management
TTL	Transistor-Transistor Logic
TU	Timing Unit
TUB	Technical University of Braunschweig (Germany)
TUSO	Transmitter Ultra Stable Oscillator
TV	Thermal Vacuum
TVA	Thruster/Valve Assembly
TVC	Thrust Vector Control/Controller
TVC	Thrust Vector Control
TWM	Traveling Wave Maser
TWNC	Two-way No-coherent
TWT	Traveling Wave Tube
TWT	Target Working Team
TWTA	Traveling Wave Tube Amplifier
TWTA-B	Traveling Wave Tube Amplifier-B
Tx	Transmitter
TXR	Transmitter
Typ	Typical
U	
U	Uranium
U	Update
U/L	UpLink

U/L ONLY	Uplink Only
UARS	Upper Atmospheric Research Satellite
UCAC2	USNO CCD Astrograph Catalog Second Iteration
UCD	User Controlled Data Base
UDMH	Unsymmetrical Di-Methyl Hydrazine
UDS	Universal Documentation System
UDT	Universal Daylight Time
UEM	Upper Equipment Module
UG	User's Guide
UG/SOM	User's Guide/Software Operations Manual
UHC	Unexpectedly High-Current
UHR	Upper Hybrid Resonance
ULCER	Umbilical Lines Checker
ULF	Ultra-Low Frequency
ULO	Uplink Operations
ULS	Ulysses
Umb	Umbilical
UNA	Un-allocated
UNOOSA	United Nations Office For Outer Space Affairs
UOE	Uplink Operations Element
UP	Utility Program
UPAM	Uplink Package Approval Meeting
UPS	Uninterrupted Power System
UR	Unit Response
USAF	United States Air Force
USAR	Updated Safety Analysis Report
USGS	United States Geological Survey
USM	Umbilical Separator Mechanism
USNO	United States Naval Observatory
USO	Ultra-Stable Oscillator
USS	Upper Shell Structure
UT	Universal Time
UTC	Coordinated Universal Time
UTC	Universal Time Code

UTMC	United Technologies Microelectronics Center
UTPM	Universal Time and Polar Motion
UV	Ultraviolet
UV	Undervoltage
UVIS	Ultraviolet Imaging Spectrograph
UVSI	Ultraviolet Spectrometer and Imager

V

V	Volts
V	Visible
V&V	Verification and Validation
V/SHM	Vector/Scalar Helium Magnetometer
VAC	Volts Alternating Current
VC	Virtual Channel
VC0	Virtual Channel "0"
VCCP	Virtual Channel Command Program
VCD	Verification Control Document
VCE	Visible Channel Electronics
VCM	Volatile Condensable Material
VCO	Voltage-Controlled Oscillator
VDC	Volts Direct Current
VDE	Valve Driver Electronics
VDECU	Valve Driver Electronics Control Unit
VDM	Valve Driver Module
VEEGA	Venus-Earth-Earth Gravity Assist
VEGA	Venus-Earth-Gravity-Assist
VEJGA	Venus-Earth-Jupiter Gravity Assist
VGR	Voyager
VHM	Vector Helium Magnetometer
VHS	Vector Helium Sensor
VHSIC	Very High-Speed Integrated Circuit
VI	Visual Editor
VIB	Vibration
VIMS	Visible and Infrared Mapping Spectrometer
VIMS-IR	VIMS Infrared

VIMSTM	VIMS Thermal Model
VIMS-V	VIMS Visible
VIS-IR	Visible-Infrared
VLA	Very Large Array
VLBI	Very Long Baseline Interferometry
VLF	Very Low Frequency
VMR	Volume Mixing Ratio
VO75	Viking Orbiter
VOC	Volts Direct Current
VOL	Volume
VPF	Vertical Processing Facility
VPN	Virtual Private Network
VRHU	Variable Radioisotope Heater Unit
VSR	VLBI Science Receiver
VSWR	Voltage Standing Wave Ratio
VVEGA	Venus-Venus-Earth-Gravity-Assist
VVEJGA	Venus-Venus-Earth-Jupiter Gravity Assist
VVVJGA	Venus-Venus-Venus-Jupiter-Gravity-Assist

W

W	Wolfram
W.R.T.	With Respect To
W/m ²	Watts per Square Meter
WA	Wide-Angle
WAC	Wide-Angle Camera
WACE	Wide-Angle Camera Electronics
WACH	Wide-Angle Camera Head
WBR	Wideband Receiver
WBS	Work Breakdown Structure
WC(A)	Worst Case (Analysis)
WCA	Worst Case Analysis
WCH	Wide-Angle Camera Head
WCI	Wide-Angle Camera Interface
WDE	Wheel Drive Electronics
WebCMD	Web Server Command

WF/PC	Wide Field/Planetary Camera
WFR	Waveform
WFR	Waveform Receiver
WG	Working Group
WIP	Work Implementation Plan
WOTU	Window on the Universe
WP	Water Products
WPA	Work Package Agreement
WRT	With Respect To
WS	Workstation
WSE	Workstation Environment
WSMC	Western Space and Mission Center
WSMCR	Western Space and Missile Center Regulation
WT	Working Timeline
WTA	Wax Thermal Actuator
WVR	Waiver Request Form
WVSR	Wide Band VSR

X

XBA	Cross-Strap Bus Adapter
X-Band	Radio Frequencies between 8 and 12 GHz
XD	Cross-Discipline
XDTWT	Cross-Discipline Target Working Team
XFR	Transfer
XM	Equinox Extended Mission
XM	Extended Mission
XMTR	Transmitter
XRTI	Cross-string RTI
XSSA	X-Band Solid State Adapter
XSSA	X-Band Solid State Amplifier
XSSPA	X-Band Solid State Power Amplifier
XSTRP	Cross-Strap
X-TWTA	X-Band Traveling Wave Tube Amplifier
XXM	Extended-Extended Mission

Y

Z

- ZLP Zero Length Packet
- ZPD Zero-Path Distance