

8 ACRONYMS

AAEF	Aquatic Animal Experiment Facility
AC	Alternating Current, Assembly Complete
ACES	Atomic Clock Ensemble in Space
ADP	Acceptance Data Package
AFD	Antenna Feeder Device
AFEX	Advanced Furnace for Microgravity Experiment with X-ray radiography
Ah	Ampere-hour
AIT	Assembly, Integration and Test
AME	Authorised Medical Examiner
Amps	Amperes
AMS	Alpha Magnetic Spectrometer
AO	Announcement of Opportunity
APM	Attached Pressurised Module
ARIS	Active Rack Isolation System
ASI	Agenzia Spaziale Italiana (Italian Space Agency)
ATC	Air Traffic Control
atm	atmospheres
ATV	Automated Transfer Vehicle
BTF	Biotechnology Research Facility
C&DH	Command and Data Handling
CAM	Centrifuge Accommodation Module
CB	Clean Bench
CBEF	Cell Biology Experiment Facility
CCD	Charge Coupled Device
CCIR	Consultative Committee for International Radio
CCOC	Code of Conduct for ISS Crew
CCPPRB	Comité Consultatif pour la Protection des Personnes impliquées dans la Recherche Biomédicale
CCS	Capsule Control System
CDR	Critical Design Review
CEF	Columbus Exposed Facility
CEPA	Columbus External Payload Adapter
CEPF	Columbus External Payload Facility
CET	Commercial Evaluation Team
CEV	Centre d'Essais en Vol
CFU	Colony Forming Units
CheCS	Crew health care system
CIR	Combustion Integrated Rack
CLG	Ceiling
cm ²	Square centimetres
CNES	Centre National d'Etudes Spatiales
CO ₂	Carbon dioxide
CPU	Central Processing Unit
CRV	Crew Return Vehicle
CryoSystem	Cryogenic freezer
CSA	Canadian Space Agency
DAC	Design Analysis Cycle
dB	Decibel
dB/oct	Decibel per Octave
DC	Direct Current
DGAC	Direction Générale de l'Aviation Civile
DHU	Data Handling Unit
DLR	Deutsches Zentrum für Luft- und Raumfahrt
DMS	Data Management System

dp	Pressure difference
DRD	Document Requirement Description
EAB	Equipped Avionics Bay
EAC	European Astronaut Centre
EADS	European Aeronautic Defence and Space
EAR	Experiment Acceptance Review
EC	Experiment Container
ECLSS	Environmental Control and Life Support System
ECM	Experiment Container Module
ECSS	European Cooperation for Space Standardisation
EDR	European Drawer Rack
EEA	Erasmus Experiment Archive
EEB	Equipped External Bay
EEE	Electrical Electronic Electromechanical
EF	Exposed Facility
EGSE	Electronic Ground Support Equipment
ELF	Electrostatic Levitation Furnace
EM	Engineering Model
EMCS	European Modular Cultivation System
EMO	ESA Moscow Office
EPB	Equipped Propulsion Bay
EPC	Experiment Power Control
EPF	External Payload Facility
EPM	European Physiology Modules, Equipped Pressurised Module
ESA	European Space Agency
ESF	European Science Foundation
ESM	Esrange Safety Manual
ESP	External Stowage Platform
ESRO	European Space Research Organisation
ESRR	ESA Safety Readiness Reviews
ESTEC	European Space Research and Technology Centre
ETC	European Transport Carrier
EUC	Erasmus User Centre
EuTEF	European Technology Exposure Facility
EVA	Extra Vehicular Activity
EWACS	Emergency Warning and Caution System
EXPRESS	EXPedite the PROcessing of Experiments to Space Station
f	frequency
f/s	frames per second
FAA	Federal Aviation Administration
FAR	Flight Acceptance Review
FCF	Fluids and Combustion Facility
FIR	Fluids Integrated Rack
FM	Frequency Modulation
fov	Field of view
FPEF	Fluid Physics Experiment Facility
FRAM	Flight Releasable Attachment Mechanisms
FRR	Flight Readiness Review
FSE	Flight Support Equipment
FSL	Fluid Science Laboratory
FST	Flight Simulation Test
ft ³	cubic feet
FWED	Flywheel Exercise Device
g, g ₀	Gravitational acceleration at the Earth's surface (~ 9.81 m/s ²)
Gbytes	Gigabytes
GHF	Gradient Heating Facility
GNC	Guidance, Navigation and Control
GN2	gaseous nitrogen

grams/cm ²	grams per square centimetre
GSE	Ground Support Equipment
GTS	Global Transmission System
Gy	Gray
Gy/day	Grays per day
H	Height
HDR	High Data Rate
HPa	Hectopascal
HRF	Human Research Facility
Hz	Hertz
ICC	Integrated Cargo Carrier
ICD	Interface Control Document
IEEE	Institute of Electrical and Electronic Engineers
IFOC	ISS Flight Order Contract
IGA	Inter Governmental Agreement
IICCD	Image Intensified Charge Coupled Device
IPU	Image Processing Unit
ISDN	Integrated Services Digital Network
ISIS	International Subrack Interface Standard
ISPR	International Standard Payload Rack
ISS	International Space Station
ITF	Isothermal Furnace
ITA	Integrated Truss Assembly
ITS	Integrated Truss Segment
JAXA	Japan Aerospace Exploration Agency
JEF	Japanese External Facility
JEM	Japanese Experiment Module
JSC	Johnson Space Center
K	Kelvin
kbit	kilobit
kbit/s	kilobit per second
kbps	kilobit per second
kg	kilogram
kgf	kilogram force
km/h, km/hr	kilometres per Hour
km/s	kilometres per second
km ²	Square kilometres
kN	kilo Newton
kPa	kilopascal
kVA	kilovolt Ampere
kW	kilowatt
kW/m ²	kilowatts per square metre
L	Launch or Length
LAN	Local Area Network
LDR	Low Data Rate
LEO	Low Earth Orbit
LPE	Liquid Phase Epitaxy
LTMPF	Low-Temperature Microgravity Physics Facility
lux	luminous flux per unit area
LVLH	Local Vertical/Local Horizontal
m	metre
m/s	metres per second
m/s ²	metres per square second
m ²	Square metres
m ³	Cubic metres
mA	milli Ampere
MAC	Microgravity Analysis Cycle
MAMS	Microgravity Acceleration Measurement System

MARES	Muscle Atrophy Research and Exercise System
MARS	Microgravity Advanced Research and Support Center
MASER	MAterial Science Experiment Rocket
MAWP	Maximum Allowable Working Pressure
Mbit	Megabit
Mbit/s	Megabit per second
Mbps	Megabit per second
MBS	Mobile Base System
MDB	Mission Data Base
MDL	Middeck Locker
MEDES	Institut de Médecine et de Physiologie Spatiales
MELFI	Minus Eighty Degrees Freezer
MID	Russian Federation Ministry of Foreign Affairs
milli-g	1×10^{-3} g or 1×10^{-3} Earth's surface gravitational acceleration
MIM	Microgravity Isolation Mount
MLI	Multi-Layer Insulation
MLM	Multipurpose Laboratory Module
mm	millimetre
MOU	Memorandum of Understanding
MPLM	Multi Purpose Logistics Module
MRA	Minimum Recoverable Altitude
MSG	Microgravity Science Glovebox
MSL	Materials Science Laboratory
MSP	Mechanism Support Plate
MSRF	Materials Science Research Facility
MSRR	Materials Science Research Rack
MSS	Mobile Servicing System
MVIS	Microgravity Vibration Isolation Subsystem
N	Newton
NASA	National Aeronautics and Space Administration
NASDA	National Space Development Agency of Japan
NCR	Non-Conformance Report
nm	Nanometre
NSTS	National Space Transportation System
NTSC	National Television System Committee
O ₂	Oxygen
oct/min	Sweep rate
OLR	Outgoing Long-wave Radiation
ORU	Orbit Replaceable Unit
p	Pressure
Pa	Pascal
PA	Product Assurance
PAL	Phase Alternating Line
PaRIS	Passive Rack Isolation System
PCDF	Protein Crystallisation Diagnostics Facility
PCM	Pulse Coded Modulation
PCSA	Principal Component Spectral Analysis
PDR	Preliminary Design Review
PFR	Post Flight Review
PFS	Pulmonary Function System
PGB	Portable Glovebox
PIMS	Principal Investigator Microgravity Services
PIV	Particle Image Velocimetry
PLIF	Planar Laser-Induced Fluorescence
PM	Pressurised Module
PODF	Payload Operations Data File
PSA	Project Specific Annex
PSD	Power Spectral Density

PU	Panel Unit
PUP	Partner Utilisation Plan
PVC	Polyvinyl chloride
QTH	Quasi-steady Three dimensional Histogram
R&D	Research and Development
Rad	0.01xGy
RCS	Rate Control System
RDS	Russian Docking System
RF	Radio Frequency
RFU	Radio Frequency (RF) Unit
RM	Research Module
RMS	Root Mean Square, Remote Manipulator System
Roscosmos	Russian Space Agency
rps	revolutions per second
RSA	Russian Space Agency
RT	Room Temperature
RTS	Remote Triaxial Sensor
s, sec	seconds
SAA	South Atlantic Anomaly
SAMS	Space Acceleration Measurement System
S/C	Spacecraft
SDM	Separation and Distancing Module
SDP	Safety Data Package
SEE	Single Event Effects
SEPPPEL	Scientific Experiment Process-control Programming Environment Language
SME	Small and Medium sized Enterprises
SPCF	Solution/Protein Crystal Growth Facility
SPLs	Sound Pressure Levels
SPOE	Standard Payload Outfitting Equipment
SPDM	Special Purpose Dextrous Manipulator
SRM	Scientific Reference Model
SSC	Swedish Space Corporation
SSFBRF	Space Station Fundamental Biology Research Facility
SSP	Space Station Programme
SSRMS	Space Station Remote Manipulator System
SUCCESS	Space station Utilisation Contest Calls for European Student initiatives
SUP	Standard Utility Panel
TBC	To Be Confirmed
TBD	To Be Determined
Tbit	Terabit
Tbit/year	Terabit per year
TBR	To Be Reviewed
TCU	Telescience Central Unit
TEXUS	Technologische EXperimente Unter Schwerelosigkeit
TM/TC	Telemetry/Telecommand
TO	Take-Off
TSM	Sounding Rocket Service Module
TSP	Twisted Shielded Pair
TsSKB	Central Specialised Construction Bureau - Tsentralnovo Spetsializirovannovo Konstruktorskovo Byuro (Центрального Специализированного Конструкторского Бюро)
TSU	TeleSupport Unit
TsUP	(Russian) Mission Control Centre - Tsentr Upravleniya Polyotom (Центр управления полетами)
TTU	Telemetry and Tracking Unit
ULC	Unpressurised Logistics Carrier
URL	Uniform Resource Locator
US	United States

USA	United States of America
USL	United States Lab
USOC	User Support and Operations Centre
USOS	United States On-orbit Segment
UV	Ultraviolet
V	Volts
VCR	Video Cassette Recorder
VDP	Video/Data Processing Unit
W	Width, Watts
w.r.t	with respect to
W/m ²	Watts per square metre
WORF	Window Observational Research Facility
WP	Work Package
XCF	X-ray Crystallography Facility
XPOP	X-Perpendicular Out of Plane
XVV	X-axis in the Velocity Vector
YVV	Y-axis in the Velocity Vector
ZARM	Zentrum für Angewandte Raumfahrt Microgravitation