

## ■ ACRONYMES ET ABRÉVIATIONS

AATSR	Advanced Along Track Scanning Radiometer (Envisat)
ACES	Atomic Clock Ensemble in Space (ESA)
ACP	Aerosol Collector and Pyrolyser (Cassini-Huygens)
ADN	Acide DésoxyriboNucléique
AGS	Systèmes Génétiques Alternatifs
AIG	Association Internationale de la Géodésie
AIRS	Atmospheric InfraRed Sounder
ALI	Alice like Insert (DECLIC)
ALICE	Analyse des Liquides Critiques dans l'Espace (MIR)
ALMA	Atacama Large Millimeter Array
ALOS	Advanced Land Observation Satellite (JAXA)
AMAP	botAnique et bioinforMatique de l' Architecture des Plantes (Cirad)
AMMA	Analyses Multidisciplinaires de la Mousson Africaine
AMPK	AMP-activated protein Kinase
ANR	Agence Nationale de Recherche
AO	Appel d'Offres
AOTF	Acousto Optic Tunable Filter
APC	Laboratoire d' AstroParticule et Cosmologie
ARN	Acide RiboNucléique
ARNm	Acide RiboNucléique messenger
ASAR	Advanced Synthetic Aperture Radar (Envisat)
ASPERA	Analyser of Space Plasmas and EneRgetic Atoms (Venus Express)
ASPICS	Association de Satellites pour l'Imagerie et la Coronographie Solaire
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer
A-train	Afternoon constellation
ATV	Automated Transfer Vehicle
AURORA	Programme européen d'exploration de l'espace
AVHRR	Advanced Very High Resolution Radiometer
AVNIR-2	Advanced Visible and Near Infrared Radiometer (2 <sup>nd</sup> generation) (ALOS)
AVP	Arginine-VasoPressine
BELA	BepiColombo Laser Altimeter
BGI	Bureau Gravimétrique International
BIOLAB	Biological Experiment Laboratory (Columbus ISS)
BIOMASS	Biomass monitoring mission for carbone assessment
BPOL (ex SAMPAN)	B-Polarization satellite
BRGM	Bureau de Recherche Géologiques et Minières
CADMOS	Centre d'Aide au Développement des activités en Micro-pesanteur et des Opérations Spatiales (CNES)
CALIPSO	Cloud Aerosol Lidar and Infrared Pathfinder Satellite Observations
CAROLS	Cooperative Airborne Radiometer for Ocean and Land Studies
CAST	CERN Axion Solar Telescope
CCGM	Commission de la Carte Géologique du Monde
CDBs	Cassures Double-Brin s
CDD	Contrat à Durée Déterminée
CDM	Cold Dark Matter
CDM	Cold Dark Matter
CEA	Commissariat à l'Energie Atomique
CEMAGREF	L'institut de recherche en sciences et technologies pour l'environnement (Centre d'Etudes du Machinisme Agricole, du Génie Rural, des Eaux et des Forêts)
CEOS	Committee for Earth ObservationS
CERES	Comité d'Evaluation sur la Recherche et l'Exploration Spatiales
CESR	Centre d'Etudes Spatiales des Rayonnements

CFOSAT	China-France Oceanography SATellite
CGRO	Compton Gamma-Ray Observatory
cGy	Centigray
CHAMP	CHAllenging Mini-satellite Payload
ChemCam	CHEMistry CAMera
CIEST	Cellule d'Intervention d'Expertise Scientifique et Technique
CIRAD	Centre de coopération Internationale en Recherche Agronomique pour le Développement
CISR	Composite InfraRed Spectrometer (Cassini-Huygens)
CIVA-P	CIVA-P (Comet InfraRed and Visible Analyser-Panoramic)
CMA	Chinese Meteorological Agency
CMB	Cosmic Microwave Background
CME	Coronal Mass Ejection
CML	Cellules Musculaires Lisses
CNES	Centre National d'Etudes Spatiales
CNRS	Centre National de la Recherche Scientifique
CNSA	Chinese National Space Agency
COPS	Convectively-induced Orographic Precipitation Study
CoReH2O	Cold Regions Hydrology High-resolution Observatory
COROT	Convection, Rotation & Transits planétaires (filiale PROTEUS – CNES, CNRS, Europe, Brésil)
COS-HST	Cosmic Origins Spectrograph-Hubble Space Telescope
COSMIC VISION	Programme scientifique à long terme de l'ESA
COSMO	Constellation of Small Satellites for Mediterranean basin Observation
COSMOS	Cosmic Evolution Survey
CPS	Comité des Programmes Scientifiques
Cryosat	ESA'ice mission
CSL	Collecte Localisation Satellite
CST	Centre Spatial de Toulouse (CNES)
CV	Cosmic Vision
CZCS	Coastal Zone Color Scanner
DADA	Dark Energy Data Analysis
DCT	Direction du Centre de Toulouse (CNES)
DEMETER	Detection of Electro-Magnetic Emissions Transmitted from Earthquake Regions (filiale MYRIADE du CNES)
DESDnyl	Deformation, Ecosystem Structure, and Dynamics of the Ice (NASA JPL)
DESIR	Detection of Solar Infrared Radiation (SMESE)
DGA	Direction Générale de l'Armement
DIAL	Differential Absorption Lidar
DISR	Descent imager/spectral radiometer (Cassini-Huygens)
DLR	Deutsches Zentrum für Luft- und Raumfahrt
DMO	Densité Minérale Osseuse
DOLL	Deep space Optical Laser Link
DORIS	Détermination d'Orbite et Radio positionnement Intégrés par Satellite
DPAC	Data Processing and Analysis Consortium
DSI	Directional Solidification Insert (DECLIC)
DSP	Direction de la prospective, de la Stratégie, des Programmes, de la valorisation et des relations internationales du CNES
DUNE	Dark Universe Explorer
DWS	Diffusion Wave Spectroscopy
DYNAGRAN	DYNAmique des milieux GRANulaires
e.g.	exempli gratia (par exemple)
E2U	Etude et Exploration de l'Univers
EADS	European Aeronautic Defence and Space company
EBF	Extrêmement Basse Fréquence
ECMWF	European Center for Medium-Range Weather Forecasts
E-ELT	European Extremely Large Telescope
EGE	Einstein Gravity Explorer
EISCAT	European Incoherent SCATter

EJSM	Europa Jupiter System Mission
ELIPS	European programme for Life and Physical Sciences and applications utilising the International Space Station (ESA)
EMCS	European Modular Cultivation System (ISS)
EMI-EMC	ElectroMagnetic Interference-ElectroMagnetic Compatibility
ENVISAT	ENVironnemental SATellite
EOST	Earth Observation Satellite Company
EPS	European Polar System
ESA	European Space Agency
ESAC	Earth Science Advisory Committee (ESA)
ESSC	Earth System Science Partnership
ESTEME	Expert System for TElE echography
Ether	Service de gestion de données spatiales en chimie (pôle Ether)
ETM+	Enhanced Thematic Mapper Plus (LANDSAT 7)
EUV	Extreme Ultra Violet
EVE	European Venus Explorer
FAGS	Federation of Astronomical and Geophysical data analysis Services
Fapar	fraction of Absorbed Photosynthetically Active Radiation
FIR	Far-InfraRed
FIRI	Far-InfraRed Interferometer
FKSI	Fourier-Kelvin Stellar Interferometer
FPAG	Fundamental Physics Advisory Group (ESA)
FREGATE	FREnch Gamma Telescope (CESR)
FROG	French Resources Organization for Goce
FTIR	Fourier-Transform Infrared Spectrometer
GAP	Gravity Advanced Package (
GAP	Gas Analytic Package (Phobos-Grunt)
GAUGE	Grand Unification and Gravity Explorer
GC-MS	Gas Chromatograph Mass Spectrometer (Cassini-Huygens)
G-DEM	Global Digital Elevation Model (ASTER)
GDR	Groupement De Recherche
GEO	Geostationary Orbit
GEO-CAPE	Geostationary Coastal and Air Pollution Events (NASA)
GEOSS	Global Earth Observation System of Systems
GEOSTAR	Geophysical and Oceanographic Station for Abyssal Research
GEP	Geophysical and Environmental Package
GES	Gaz à effet de serre
GFP	Green Fluorescent Protein
GGOS	Global Geodetic Observing System (IAG)
GIEC	Groupe Intergouvernemental sur l'Evolution du Climat (ONU)
GLAST	Gamma-ray Large Area Space Telescope (renommé FERMI)
GMES	Global Monitoring for Environment and Security
GNC	Guidance Navigation and Control
GNSS	Global Navigation Satellite System
GOCE	ESA's Gravity field and steady-state Ocean Circulation Explorer
GODAE	Global Ocean Data Assimilation Experiment
GOOS	Global Ocean Observing System
GOSAT	Greenhouse gasses Observing SATellite
GPA	Gravity Probe A
GPM	Global Precipitation Measurement
GPS	Global Positioning System
GRACE	GRAVity recovery and Climate Experiment
GRACE-FO	GRACE Follow-On
GRGS	Groupe de Recherche de Géodésie Spatiale
GSFC	Goddard Space Flight Center
GSMA	Groupe de Spectrométrie Moléculaire et Atmosphérique (CNRS, Univ. Reims)
Gy	Gray : One gray is the absorption of one joule of energy, in the form of ionizing radiation, by one kilogram of matter

HARPS	High Accuracy Radial velocity Planet Searcher
HEBS	High Energy Burst Spectrometer
HETE	High Energy Transient Explorer
HFI	High Frequency Instrument
HH	Horizontal transmit, Horizontal receive
HPLC	High Performance Liquid Chromatography
HRS	High Resolution Spectrometer
HRSC	High Resolution Stereo Camera
HRV	High Resolution Visible
HST	Hubble Space Telescope
HTI	High Temperature Insert (DECLIC)
HTRS	High Time Resolution Spectrometer
HV	Horizontal transmit, Vertical receive
i.e.	id est (c'est-à-dire)
IAG	International Association of Geodesy
IAGOS	Integration of routine Aircraft measurements into a Global Observing System
IAP	Institut d'Astrophysique de Paris
IASI	Infrared Atmospheric Sounding Interferometer
IBIS	Imager on Board the Integral Satellite
ICARE	Interactions Clouds Aerosols Radiations Etc (pôle ICARE)
ICC	Instrument Control Center
ICE	Interféromètre à source Cohérente pour l'Espace
ICOS	Integrated Carbone Observation System
IDS	International DORIS Service
IERS	International Earth Rotation and reference systems Service
IFN	Institut Forestier National
IFREMER	Institut Français de Recherche pour l'Exploitation de la MER
IGFS	International Gravity Field Service
IGN	Institut Géographique National
IGPB	International Geosphere Biosphere Programme
IGS	International GNSS Service
IKI	Institut de recherche spatiale russe
ILN	International Lunar Network
IMBP	Institute of Medical and Biological Problems (Moscou)
IMEDIA	Investigation Multi-Echelles De l'Interface Aurorale
IMF	Initial Mass Function
IMPACT	Interface Microgravity PhAse Change and Heat Transfer
IN2P3	Institut National de Physique Nucléaire et de Physique des Particules
INMS	Ion and Neutral Mass Spectrometer (Cassini-Huygens)
INRA	Institut National de la Recherche Agronomique
INSPIRE	Infrastructure for Spatial Information in the European Community
INSU	Institut National des Sciences de l'Univers
INTEGRAL	INTErnational Gamma-Ray Laboratory
IPGP	Institut de Physique du Globe de Paris
IPSL	Institut Pierre Simon Laplace
IR	InfraRouge
IRAM	Institut de RadioAstronomie Millimétrique
IRAS	InfraRed Astronomical Satellite
IRLS	International Laser Ranging Service
IRM	Image par Résonance Magnétique
IRSIS	Infra-Red Spectroscopic Imaging Survey
IRT	InfraRouge Thermique (> 1µm)
ISA	Israel Space Agency
ISIS	Incitation à l'utilisation Scientifique des Images Spot
ISO	Infrared Space Observatory
ISS	International Space Station
ITA	Ingénieurs, Techniciens et Administratifs
ITRF	International Terrestrial Reference Frame
IXO	International X-ray Observatory

Jason-3	Jason-2 follow-on mission (CNES, EUMETSAT, NOAA)
JAXA	Japan Aerospace Exploration Agency
JEM-EUSO	Extreme-Universe Space Observatory (EUSO) on Japanese Experiment Module (JEM)
JEO	Jupiter Europa Orbiter (EJSM-NASA)
JGO	Jupiter Ganymede Orbiter (EJSM-ESA)
JMO	Jupiter Magnetospheric Orbiter (EJSM-JAXA)
JPL	Jet Propulsion Laboratory
JWST	James Webb Space Telescope
KaRIN	ka-band Radar Interferometer
keV	103 Ev (electron volt)
LaBr3	Lanthanum Bromide
LAI	Leaf Area Index
LATMOS	Laboratoire Atmosphères, Milieux, Observations Spatiales
LBNP	Lower Body Negative Pressure
LEO	Low Earth Orbit
LESIA	Laboratoire d'Etudes Spatiales et d'Instrumentation en Astrophysique (OBSPM)
LFI	Low Frequency Instrument
LIBS	Laser Induced Breakdown Spectroscopy
LIDAR	Light Detection And Ranging
LIGO	Laser Interferometer Gravitational-wave Observatory
LISA	Laser Interferometer Space Antenna (programme Cosmic Vision ESA)
LLR	Lunar Laser Ranging
LMCS	Land Monitoring Core Service
LMD	Laboratoire de Météorologie Dynamique
L-MED	L-band Microwave Emission of the Biosphere
LORAR	Low Frequency Array
LPL	Laboratoire de Physique des Lasers
LYOT	Lyman Orbiting Telescope
LZH	Laser Zentrum Hannover
MAI	Multiple Aperture Imaging
MATIS	Méthodes d'Analyse et de Traitement d'images pour la Stéréo-restitution (IGN)
MAVEN	Mars Atmosphere and Volatile Evolution
MEDES	Institut de Médecine et de Physiologie Spatiales
MEN	Mission pour l'Energie Noire
MERIS	Medium Resolution Imager Spectrograph
MERIS	Medium Resolution Imaging Spectrometer
MESSENGER	Mercury Surface, Space Environment, Geochemistry, and Ranging mission (NASA)
mgal	= 10 <sup>-5</sup> m/s <sup>2</sup>
mGy	milligray
MICROSCOPE	MICRO-Satellite à traînée Compensée pour l'Observation du Principe d'Equivalence (filiale MYRIADE du CNES)
MIG	Milieu intergalactique
MIGAL	Micro Gouttes Autopropulsées
MIRI	Mid InfraRed Instrument
MMO	Mercury Magnetospheric Orbiter (BepiColombo – JAXA)
MMS	Magnetospheric Multiscale Mission (NASA)
MO	Mission d'Opportunité
MODIS	MODerate resolution Imaging Spectroradiometer
MOPITT	Measurement Of Pollution In The Troposphere
MOZAIC	Measurement of Ozone and water vapour by Airbus in-service airCRAFT
MPF	Mars Pathfinder
MPO	Mercury Planetary Orbiter (BepiColombo – ESA)
MRO	Mars Reconnaissance Orbiter
MSG	Meteosat Second Generation
MSL	Materials Science Laboratory
MSR	Mars Sample Return
MWL	Micro-Wave Link
MWXG	Matter Wave Explorer of Gravity

NASA	National Aeronautics and Space Administration
Nd-YAG	Neodymium-doped Yttrium Aluminium Garnet (laser)
NEO	Near Earth Objects
NEOSS	Near Earth Object Surveillance Satellite
OBSPM	OBServatoire astronomique de Paris-Meudon-Nancay
OCAPI	Ocean Color Advanced Permanent Imager
OCO	Orbiting Carbon Observatory
OLGA	Oxygen Low Gravity Apparatus (CEA)
OMEGA	Observatoire pour la Minéralogie, l'Eau, les Glaces et l'Activité
ONERA	Office National d'Etudes et de Recherches Aéronautiques
ONF	Office National des Forêts
OV	Observatoire Virtuel
PACS	Photodetector Array Camera and Spectrometer
PASO	Plateau d'Architecture des Systèmes Orbitaux
PCR	Polymerase Chain Reaction
PERSEE	Pegase Experiment for Research and Stabilization of Extreme Extinctions
PHARAO	Projet d'Horloge Atomique par Refroidissement d'Atomes en Orbite
PHEBUS	Probing of Hermean Exosphere By Ultraviolet Spectroscopy (LATMOS)
PHOIBOS	Probing Heliospheric Origins with an Inner Boundary Observing Spacecraft
Pi	Principal Investigator
PID OPV	Programme InterDisciplinaire Origine des Planètes et de la Vie
PIR	Proche InfraRouge (700nm-1µm)
PIV	Particle Image Velocimetry
PLATO	PLAnetary Transits and Oscillations of stars (programme COSMIC VISION ESA)
PNP	Programme National de Planétologie
PNST	Programme National Soleil-Terre
PODET	Pôle sur la Dynamique Environnementale Terrestre
POLARCAT	POLAr study using Aircraft, Remote sensing, surface measurements and models, of Climate chemistry, Aerosols and Transport
POLDER	POLarization and Directionality of the Earth's Reflectances
PRISMA	Prototype Research Instruments and Space Mission technology Advancement
PROMES	PROcédés, Matériaux et Energie Solaire (CNRS)
PROTEUS	Plateforme Reconfigu-rable pour l'Observation, les Télécommunications et les Usages Scientifiques (ESA, CNES, Alcatel Alenia Space)
R&T	Recherche et Technologie
RDA	Recommended Daily Allowance
RESIF	Réseau Sismologique Français
RFID	Radio Frequency Identification
RHESSI	Reuven Ramaty High Energy Solar Spectroscopic Imager
RPWS	Radio and Plasma Wave Science (Cassini-Huygens)
RSL	Réseau Sismique Lunaire
RTG	Radioisotope Thermoelectric Generators
RT-PCR	Reverse Transcriptase- Polymerase Chain Reaction
RV	Radial Velocities
RXTE	Rossi X-ray Timing Explorer
SAFARI	SpicA FAR-Infrared instrument
SAGAS	Search for Anomalous Gravitation using Atomic Sensors
SAI	Single Aperture Imaging
SALP	Service d'Altimétrie et Localisation Précise
SAM	Sample Analysis at Mars (LATMOS)
SAMPAN (BPOL)	Satellite for Analysing Microwave Polarization Anisotropies
SAR	Synthetic Aperture Radar
SBT	Service des Basses Températures (CEA)
Schiamachy	Scanning Imaging Absorption spectroMeter for Atmospheric CartographY
SCOUT-03	Stratospheric Climate with Emphasis on the Upper Troposphere and Lower Stratosphere
SCWO	Supercritical Water Oxydation
SDSS	Sloan Digital Sky Survey

SeaWiFS	Sea-viewing Wide Field-of-view Sensor
SEE-Coast	Super Earth Explorer-Coast
SEIS	SEISmometer package
Sentinel-3	ESA's GMES mission
SERENA	Search for Exospheric Refilling and Emitted Natural Abundances
SFR	Star Formation Rate
SHM	Soleil, Héliosphère, Magnétosphères
SHOM	Service Hydrographique et Océanographique de la Marine
SIC	Surfaces et Interfaces Continentales
SIDP	Stratospheric Interplanetary Dust Particle
SIMBIO-SYS	Spectrometers and Imagers for MPO BepiColombo Integrated Observatory SYStem
SIM-Lite	SIM Lite Astrometric Observatory (ex Space Interferometry Mission)
SKA	Square Kilometer Array
SLR	Satellite Laser Ranging
SMESE	Small Explorer for Solar Eruptions
SMEX	Small Explorer
SMOS	Soil Moisture and Ocean Salinity
SMOS-FO	Soil Moisture and Ocean Salinity-Follow On
SNC	Shergottite-Nakhlilite-Chassignite (météorites)
SO	Solar Orbiter
SO	Systèmes d'Observation (INSU)
SOHO	Solar and Heliospheric Observatory
SOIR	Solar Occultation in the Infrared (SPICAV-SOIR)
SOPHIE	Spectrographe pour l'Observation des Phénomènes sismologiques et Exoplanétaires
SORCE	Solar Radiation and Climate Experiment
SP	Solar Probe
SPI	Spectromètre d'Integral
SPICA	Space Infrared telescope for Cosmology and Astrophysics
SPICAV	Spectroscopy for Investigation of Characteristics of the Atmosphere of Venus (Venus Express)
SPiRE	Spectral and Photometric Imaging Receiver
SPOT	Système pour l'Observation de la Terre
SPRT	Science Programme Review Team (ESA)
SRTM	Shuttle Radar Topography Mission
SSAC	Space Science Advisory Committee (ESA)
SST	Sea Surface Temperature
SSWG	Solar System Working Group (ESA)
STEREO	Solar Terrestrial Relations Observatory (NASA)
SuperDARN	Super Dual Auroral Radar Network
SVOM	Space based multi-band Variable Object Monitor
SWIM	Surface Waves Investigation and Monitoring
SWORD	large Swath Ocean Radar and Doppler measurements
SWOT	Surface Waters Ocean Topography
SYRTE	Systèmes de Référence Temps-Espace (OBSPM)
T2L2	Transfert de Temps Lien Laser
T2M	Télémétrie laser à 2 Modes
TANDEM	Titan AND Encelade Mission
TanDEM-X	TerraSAR-X-Add-on for Digital Elevation Measurements
TARANIS	Tool for the Analysis of Radiations from lightNIngs and Sprites (filiale MYRIADE du CNES)
TBF	Très Basse Fréquence
TESS	Transiting Exoplanet Survey Satellite
TETIS	Territoires, Environnement, Télédétection et Information Spatiale (Cemagref)
TGFs	Terrestrial Gamma ray Flashes
THEMIS	Time History of Events and Macroscale Interactions during Substorms (NASA)
THR	Très Haute Résolution spatiale
TIPO	Télémétrie Inter-Planétaire Optique
TLEs	Transient Luminous Events
TM	Thematic Mapper (LANDSAT 4 et 5)
TNA	Threose Nucleic Acid

TOSCA	Terre, Océan, Surfaces Continentales, Atmosphère
TPF	Terrestrial Planet Finder
TPF-C	Terrestrial Planet Finder Coronagraph
TPF-I	Terrestrial Planet Finder Interferometer
TRMM	Tropical Rainful Measurement Mission
TSSM	Titan Saturn System Mission
UA	Unité Astronomique
UBF	Ultra Basse Fréquence
UE	Union Européenne
UTLS	Upper Troposphere/Lower Stratosphere
UV	UltraViolet (250-450 nm)
UVIS	Ultraviolet Imaging Spectrograph (Cassini-Huygens)
VBB	Very Broad Band
VIMS	Visual and Infrared Mapping Spectrometer (Cassini-Huygens)
VIRTIS	Visible and Infrared Thermal Imaging Spectrometer (Venus Express)
VIS	VISible (400-700 nm)
VLBI	Very Long Baseline Interferometry
VLT	Very Large Telescope
VSR	Visible Spectral Radiometry
VV	Vertical transmit, Vertical receive
WCRP	World Climate Research Programme
WDC	World Data Center
WDMAM	World Digital Magnetic Anomaly Map
WDS	World Data System (FAGS+WDC)
WHIM	Warm Hot Intergalactic Medium
WISE	Women International Space Simulation for Exploration
WMAP	Wilkinson Microwave Anisotropy Probe
XGRE	X-ray, Gamma-ray and Relativistic Electron experiment
XMM	X-ray Multi-Mirrors