List of abbreviations

//	Parallel
⊥	Perpendicular
2D	Two dimensional
3D	Three dimensional
Å	Ångström (0.1 nm or 10^{-10} m)
A	Area
A/C	Aircraft
aa, AA	A 3-hour and daily geomagnetic index (nT) based on two antipodal stations (Canberra and Hartland)
AAR	Auroral Acceleration Region
aBG	Above background
Ac	Corrected area (e.g. for line-of-sight)
ACE	Advanced Composition Explorer
AE	Auroral Electrojet
A_e	Effective Area
AFB	Air Force Base
AFFECTS	Advanced Forecast For Ensuring Communications Through Space
AFWA	Air Force Weather Agency
AGU	American Geophysical Union
AH-64	Apache military helicopter
AIA	Atmospheric Imaging Assembly (SDO)
Al	Aluminum
AM	Amplitude Modulation
anaprop	Anomalous Propagation
AOCS	Air Operations Control Station
a_p, A_p	Resp. a 3-hour and daily geomagnetic index, ranging from 0 (quiet) to 400 nT (extremely severe storm)
APS	Active Pixel Sensor
APV	Approach with vertical guidance
Ar	Argon
AR	Active Region
ARCAS	Augmented Resolution Callisto Spectrometer
ASFC	Australian Space Forecast Center (SWS)
ASPIICS	Association of Spacecraft for Polarimetric and Imaging Investigation of the Corona of the Sun (PROBA-3)
ATC	Air Traffic Control
ATM	Air Traffic Management
AU	Astronomical Unit; about 150 million km
AVIDOS	Aviation Dosimetry
AWACS	Airborne early Warning And Control Station
AZA	Auroral Zone Absorption
β	Plasma beta parameter (the ratio of the plasma pressure to the magnetic pressure)
B	Magnetic field (strength)
B/G, B/Gr	Background
BDE	Bidirectional beams of suprathermal (> 100 eV) electrons
BE	Belgium
BeiDou	Chinese GNSS
BELSPO	Belgian Science Policy Office
BGS	British Geological Survey
BISA	Belgian Institute for Space Aeronomy
BMD	Ballistic Missile Defense
B.USOC	Belgian User Support and Operation Center
Bz	Component of the IMF perpendicular to the ecliptic ("north-south" component)
°C	degrees Celsius
c_0	Speed of light in vacuum
C-class flare	Common x-ray flare
C/N_0	Carrier-to-Noise (dB-Hz)
Ca II H	A blue line in the solar spectrum at 396.85 nm
Ca II K	A blue line in the solar spectrum at 393.37 nm
CACTus	Computer Aided CME Tracking software
CALLISTO	Compound Astronomical Low frequency Low cost Instrument for Spectroscopy and Transportable Observatory
CCD	Charge-Coupled Device
CDAW	Coordinated data analysis workshop (NASA/GSFC)

CELIAS	Charge, Element, and Isotope Analysis System (SOHO)
CESRA	Community of European Solar Radio Astronomers
cgs	Metric system based on the centimeter, the gram, and the second
CH	Coronal Hole
CIR	Co-rotating Interaction Region
CISM	Center for Integrated Space Weather Modeling
Cluster	ESA/NASA mission to study the Earth's magnetosphere (no acronym)
CM	Central Meridian
CMD	Central Meridian Distance
CME	Coronal Mass Ejection
COMESEP	COronal Mass Ejections and Solar Energetic Particles
CONUS	Continental United States
COPUOS	COmmittee on the Peaceful Uses of Outer Space (UN)
COR (1/2)	Coronagraph (Inner/Outer) onboard STEREO
COSPAR	COmmittee on SPAce Research
COST	(European) COoperation in Science & Technology
CRF	Cosmic Ray Flux
CRC	Control and Reporting Center
CSHKP	Carmichael, Sturrock, Hirayama, Kopp and Pneuman (standard model for solar flares)
CSL	Centre Spatial de Liège
CTM	Continuum storm (radio)
CubeSat	A small satellite measuring 10cm x 10cm x 10cm
CW	Continuous Wave
D-RAP	D Region Absorption Predictions (NOAA/SWPC)
dB	(1) Decibel ; (2) change in magnetic field amplitude
dBi	dB with reference to an isotropic antenna
dBm	dB with reference to 1 mW
dBW	Decibel Watt
D	(1) Directivity of an antenna; (2) ionospheric layer
DGPS	Differential Global Positioning System
DH	Decametric-Hectometric
D_{Iono}	Ionospheric delay
DLR	Deutsches Zentrum für Luft- und Raumfahrt (German Aerospace Center)
DN	Digital Number (pixel values not calibrated into physically meaningful units)
DNL	Distant Neutral Line
DOI	Digital Object Identifier
DOP	Dilution Of Precision
DOY	Day Of Year
DRAO	Dominion Radio Astrophysical Observatory
DSCOVR	Deep Space Climate Observatory
DSLP	Dual Segmented Langmuir Probe (PROBA2)
DSP	Digital Signal Processing
Dst	Disturbance Storm Time index; an hourly geomagnetic index (nT)
D_{Tropo}	Tropospheric delay
DTU	Technical University of Denmark
e^-	electron
E	(1) Electric field; (2) Electrical efficiency of an antenna; (3) Energy (4) ionospheric layer
E1, E5a	Galileo frequencies: E1 = 1575.42 MHz , L2 = 1176.45 MHz
e-Callisto	extended Compact Astronomical Low-cost Low-frequency Instrument for Spectroscopy and Transportable Observatory
ECA	European Cockpit Association
ECMWF	European Centre for Medium-range Weather Forecasts
EDACs	Error-detection-and-correction algorithms
EGNOS	European Geostationary Navigation Overlay Service
EGU	European Geosciences Union
EHF	Extreme High Frequency
EIA	Equatorial Ionization Anomaly
EISCAT	European Incoherent SCATter scientific association
EIT	Extreme ultraviolet Imaging Telescope (SOHO)

EIT-wave	A coronal wave named after the EIT instrument
EIWG	Earth ionosphere waveguide
ELF	Extremely Low Frequency
EM	Electromagnetic
EMUF	E-layer MUF (ionosphere)
ENLIL	Sumerian god of wind and storms (NOT an acronym)
ENTSO-E	European Network of Transmission System Operators
EPAM	Electron, Proton, and Alpha Monitor (ACE)
EPB	Equatorial Plasma Bubble
EPCARD	European Program Package for the Calculation of Aviation Route Doses
EPN	EUREF Permanent Network
EPT	Energetic Particle Telescope (PROBA-V)
erg	unit of energy (1 erg = 10^{-7} J)
Es	Sporadic E (ionosphere)
ESA	European Space Agency
ESC	Expert Service Centre (ESA/SSA)
ESD	Electrostatic Discharge
ESERO	European Space Education Resource Office
ESF	Equatorial Spread F
ESOC	European Space Operations Centre
ESP	EUV SpectroPhotometer (SDO)
ESTEC	European Space Research and Technology Centre
ESWP	European Space Weather Portal
ESWW	European Space Weather Week
ETH Zürich	Eidgenössische Technische Hochschule Zürich
EU	European Union
EUHFORIA	European Heliospheric Forecasting Information Asset
EUI	Extreme-Ultraviolet Imagers (Solar Orbiter)
EUMETNET	European Meteorological services Network
EUMETSAT	European Organization for the Exploitation of Meteorological Satellites
EUREF	EUropean Reference Frame
EURISGIC	European Risk from Geomagnetically Induced Currents project (FP7)
EUV	Extreme Ultraviolet
EUVI	Extreme Ultraviolet Imager (STEREO/SECCHI)
eV	electronvolt (1.6 . 10^{-19} Joule)
EVA	Extravehicular activity
EVE	Extreme ultraviolet Variability Experiment (SDO)
EWC	Early Warning Capability
Φ	Flux
f	frequency
F	Force
F1, F2	Ionospheric layer
$F_{10.7\ cm}$	Solar radio flux at 10.7 cm wavelength
F10.7P	Proxy for F10.7 cm radio flux (= (F10.7 + F10.7A)/2, with F10.7A the average over the previous 81 days
FAA	Federal Aviation Administration
FAC	Field Aligned Current
FADEC	Full Authority Digital Engine Control
FC	Faraday Cup (DSCOVR)
FD	Forbush Decrease
Fe xvi	Fifteen times ionized iron
FLRW	Field line random walk
FM	Frequency Modulation
FMI	Finnish Meteorological Institute
foE	Critical frequency E-layer
foF1	Critical frequency F1-layer
foF2	Critical frequency F2-layer
FOT	Frequency of Optimum Transmission (ionosphere)
FOV	Field-Of-View
FP7	Framework Program 7 (EU)
FS	Forward shock
FTE	Fast Transit Event
FUV	Far Ultraviolet
G	(1) Gauss (1 G = 100.000 nT; 1 T = 10.000 G) ; (2) NOAA's scale for geomagnetic storms; (3) Gain of an antenna
g	number of sunspot groups
GAGAN	GPS Aided GEO Augmented Navigation (India)
Galileo	European GNSS

GBAS	Ground Based Augmentation System
GCR	Galactic Cosmic Rays
GDM-TEC	Global daily mean Total Electron Content
GEO	Geostationary Earth orbit (at altitude of 35.786 kilometers)
GeV	Giga electronvolt (10^9 . 1.6 . 10^{-19} Joule)
GHz	Gigahertz (10^9 Hz)
GIC	Geomagnetically induced current
GIM	Global Ionospheric Maps
GLE	Ground Level Enhancement
GLONASS	GLObal NAvigation Satellite System (Russia)
GMDSS	Global Maritime Distress and Safety System
GNSS	Global Navigation Satellite System
GNSS4SWEC	Advanced GNSS tropospheric products for the monitoring of Severe Weather Events and Climate
GOES	Geostationary Operational Environmental Satellite
GONG	Global Oscillation Network Group
GP-B	Gravity Probe B (2004-2010)
GPS	Global Positioning System (USA)
GRAPE	GNSS Research and Application for Polar Environment
GSE	Geocentric Solar Ecliptic (coordinate system)
GSEQ	Geocentric Solar EQuatorial (coordinate system)
GSFC	Goddard Space Flight Center
GSM	(1) Global System for Mobile Communications (2) Geocentric Solar Magnetospheric (coordinate system)
GSO	Geosynchronous orbit
GSSAC	German Space Situational Awareness Center
GTO	Geostationary Transfer Orbit
Gy	Gray (J/kg ; absorbed radiation dose)
h	Planck's constant (6.62607004 × 10^{-34} m^2 kg / s)
H, H_2	Hydrogen, molecular hydrogen
H2020	Horizon 2020; EU Research and Innovation program (2014 to 2020)
H_2O	Water, water vapour
H-alpha (Hα)	A red visible spectral line at 656.28 nm created by Hydrogen
H-component	Horizontal component of the MF
HAARP	High Frequency Active Auroral Research Program
HAO	High Altitude Observatory
h_c	Critical height
HCS	Heliospheric Current Sheet
He	Helium
HEK	Heliophysics Events Knowledgebase
HELCATS	HELiospheric Cataloguing, Analysis and Techniques Service
HEO	High Earth Orbit (altitude > 35.786 km)
HF	High Frequency (3-30 MHz)
HI	Heliospheric Imager (STEREO)
Hinode	A JAXA/NASA solar mission
h_mF_2	peak electron density height of F_2-layer
HMI	Heliospheric and Magnetic Imager (SDO)
hr	hour
HSRS	Humain Solar Radio Spectrograph
HSS	High Speed Stream
HuRAS	Humain Radio Astronomy Station
HXR	Hard x-rays
Hz	Hertz (per second)
i	ion(s)
I	Intensity
IAU	International Astronomical Union
IAGA	International Association of Geomagnetism and Aeronomy
ICAO	International Civil Aviation Organization
ICME	Interplanetary CME
ICSU	International Council for Science
ICTSW	Interprogramme Coordination Team on Space Weather (WMO)

IEEE	Institute of Electrical and Electronics Engineers
IF	(1) Intermediate Frequency; (2) Interface
IFF	Identification Friend or Foe
IGS	International GNSS Service
IGSO	Inclined geosynchronous orbit
ILWS	International Living With a Star (Program)
IMAGE	Imager for Magnetopause-to-Aurora Global Exploration
IMF	Interplanetary Magnetic Field
IMPACT	In-situ Measurements of Particles and CME Transients (STEREO)
INTEGRAL	INTErnational Gamma-Ray Astrophysics Laboratory
INTERMAGNET	INTErnational Real-time MAGnetic Observatory NETwork
IP	Interplanetary
ISES	International Space Environment Services
IIFR	Interpolated In-Field Referencing
INGV	Istituto Nazionale Geofisica e Vulcanologia (Italy)
IPB	Ionospheric Plasma Bubble
IPP	Ionospheric Piercing Point
IPS	Interplanetary Scintillation
IPT-SWeISS	Inter-Programme Team on Space Weather Information, Systems and Services (WMO)
IR	Infrared
IRI	International Reference Ionosphere
IRIS	Interface Region Imaging Spectrograph
IRNSS	Indian Regional Navigation Satellite System (Regional system; India)
IRSN	Institut de Radioprotection et de Sûreté Nucléaire
ISES	International Space Environment Service
ISOON	Improved Solar Observing Optical Network (USAF/AFWA)
ISN	International Sunspot Number
ISS	International Space Station
ISWI	International Space Weather Initiative
ITRF	International Terrestrial Reference Frame
ITU	International Telecom Unit
IUGG	International Union of Geodesy and Geophysics
φ	Phi angle
J	Joule
JAXA	Japan Aerospace eXploration Agency
JBP	Jet Bright Point
jHV	jHelioViewer
JMG	Joint Meteorological Group
JSWSC	Journal of Space Weather and Space Climate
K	(1) Local K-index: A 3-hour geomagnetic index, ranging from 0 (quiet) to 9 (extremely severe storm) ; (2) degrees Kelvin
K-Cor	K-coronagraph (MLSO)
keV	kilo electronvolt (10^3 . 1.6 . 10^{-19} Joule)
kHz	kilo Hertz (10^3 /second)
KNMI	Koninklijk Nederlands Meteorologisch Instituut
K_p	Planetary K-index; A 3-hour geomagnetic index, ranging from 0 (quiet) to 9 (extremely severe storm)
K_s	Standardized K index
KSB	Koninklijke Sterrenwacht van België
KUL	Katholieke Universiteit Leuven
kV	kiloVolt (10^3 Volt)
λ	wavelength
L	(1) Letter (manuscript); (2) Length; (3) Loss
L-shell	Set of planetary magnetic field lines
L1, L2	GPS frequencies: L1 = 1575.42 MHz , L2 = 1227.60 MHz
L1, …, L5	First, … , fifth Lagrangian point
LAAS	Local Area Augmentation System
LASCO	Large Angle Spectrometric Coronagraph (SOHO); small (C2) and wide (C3) field of view
LDE	Long Duration Event
LDM-TEC	Latitudinal Daily Mean TEC value

LEA	Learmonth (RSTN, radio observatory)
LEO	Low Earth Orbit (160-2000 km altitude)
LF	Low Frequency (30-300 kHz)
LH	Left-handed
LHCP	Left Hand Circular Polarized
LIDAR	LIght Detection And Radar
LMSAL	Lockheed Martin Solar and Astrophysics Laboratory
LOFAR	Low-Frequency Array
LORAN	Long Range Navigation
LOS	Line Of Sight
LPV	Localizer performance with vertical guidance
LT	Local Time
LUF	Lowest Useable Frequency
LVNL	Luchtverkeersleiding Nederland
Ly-α	Lyman-alpha, a spectral line in the VUV at 121.6 nm
LYRA	Large Yield RAdiometer, formerly called Lyman Alpha Radiometer (PROBA2)
μ	Magnetic moment of a gyrating particle
μm	micrometer (10^{-6} meter)
μ-waves	microwaves (300 MHz - 300 GHz)
M-class	Medium class satellite
M-class flare	Medium x-ray flare
MAARBLE	Monitoring, Analyzing and Assessing Radiation Belt Loss and Energization
MAG	Magnetometer instrument (ACE, DSCOVR)
MB	Megabyte
MC	Magnetic cloud
MDI	Michelson Doppler Imager (SOHO)
MEGS-A	Multiple EUV Grating Spectrograph A (SDO) - No longer operational
MEGS-B	Multiple EUV Grating Spectrograph B (SDO)
MEO	Medium Earth orbit (2000 - <35.786 km altitude)
MeV	Mega electronvolt (10^{6} . 1.6 . 10^{-19} Joule)
METOC	Meteorology and Oceanography
MF	(1) Medium frequency (300 kHz - 3 MHz); (2) Magnetic field
MH	Millionths of a solar hemisphere (1 MH = ~ 3 million km^2). Area Earth = ~167 MH
MHD	Magnetohydrodynamics
MHF	Medium High Frequency
MHz	Megahertz (10^{6}/s)
MK	Million degrees Kelvin
mks	Metric system based on the meter, kilogram, and second
MLSO	Mauna Loa Solar Observatory
MP	Magnetopause
mph	miles per hour
ms	milliseconds (10^{-3} seconds)
MSAS	Multi-functional Satellite Augmentation System (Japan)
MSCS	McIntosh Sunspot Classification Scheme
MSFC	Marshall Space Flight Center (NASA)
MSSL	Mullard Space Science Laboratory
mSv	millisievert (10^{-3} J/kg ; dose equivalent radiation)
MTI	Moving Target Indication
MTOF	Mass Tome-of-Flight sensor (SOHO)
MUF	Maximum Useable Frequency
Mw	Moment magnitude (earthquake)
ν	Frequency
n	neutral particles
N, N_2	Nitrogen, molecular nitrogen
N	Density: particles per volume unit
NAIRAS	Nowcast of Atmospheric Ionizing Radiation System
NASA	National Aeronautics and Space Administration
NAVIC	NAVigation with Indian Constellation (Regional; Indian GNSS)
NATO	North-Atlantic Treaty Organization
NCAR	National Center for Atmospheric Research
NCEI	National Centers for Environmental Information

N_e	Electron density ($e^- m^{-3}$)
Ne	Neon
NENL	Near-Earth Neutral Line
NEO	Near Earth Objects
Net-TIDE	Pilot Network for Identification of Travelling Ionospheric Disturbances in Europe
NGDC	National Geophysical Data Center (NOAA)
NIR	Near IR
NJIT	New Jersey Institute of Technology
NL	The Netherlands
NM	Neutron Monitor
nm	nanometer (10^{-9} meter)
N_mF_2	peak electron density of F_2-layer
NO, NO^+	Nitric oxide, ionized NO
NOAA	National Oceanic and Atmospheric Administration (numbering of sunspots,...)
NO_x	Refers to NO and NO_2
NRCan	Natural Resources Canada
NRH	Nançay Radioheliograph
NRT	Near Real Time
NSO	National Solar Observatory (USA)
NSWP	National Space Weather Program (USA)
nT	nanotesla (10^{-9} Tesla)
O, O_2 , O^+	Oxygen, molecular oxygen, ionized oxygen
O_3	Ozone
OBEE	Outer belt electron enhancements
Op	Optical information (H-alpha classification)
ORFEES	Observation Radio Fréquences pour l'Etude des Eruptions Solaires
OTH	Over The Horizon
P	Power
p^+	proton
P_t	Transmitted power
P2SC	PROBA2 Science Center
PAL	Palehua (RSTN, radio observatory)
PAR	Phased Array Radar
PC	Polar Cap; a dimensionless geomagnetic index based on a single nearpole station (one for each pole)
PCA	Polar Cap Absorption
PCAF	PCA forecast
PEA	Post-eruption arcade
PECASUS	Pan-European Consortium for Aviation Space weather User Services (ICAO)
PEN	Penticton (DRAO, radio flux)
PFSS	Potential Field Source Surface
pfu	particle (proton) flux unit: the number of particles registered per second, per square cm, and per steradian (1 pfu = 1 particle / $cm^{-2}s^{-1}sr^{-1}$)
PhD	Doctor of Philosophy
PIL	Polarity Inversion Line (neutral line)
PLASTIC	Plasma and Suprathermal Ion Composition (STEREO)
PoS, PotS	Plane-of-the-Sky
PPP	Precise Point Positioning (DGPS)
PRF	(1) Preliminary Report and Forecast of Solar Geophysical Data (the "Weekly"); (2) Pulse Repetition Frequency
PROBA	PRoject for OnBoard Autonomy
PSR	Primary Surveillance Radar
q	Charge
Q	Quantity (e.g. e^-, H_2O,...)
Q&A	Questions and Answers
QS	Quiet Sun
QZSS	Quasi-Zenith Satellite System (Regional system; Japan)
R	(1) Radius ; (2) NOAA's scale for Radio Blackouts; (3) Range
R&D	Research and Development
RAC	Radar Auroral Clutter
RAAF	Royal Australian Air Force
RADAR	RAdio Detection And Ranging
RAE	Royal Academy of Engineering (UK)
RBR	Radio burst (fixed frequency)
RC	Ring Current
RCS	Radar Cross Section
R_E	Earth radius (6378 km)
RF	Radio Frequency
RFI	Radio Frequency Interference
RH	Right-handed
RHCP	Right Hand Circular Polarized

RHESSI	Reuven Ramaty High Energy Solar Spectroscopic Imager
Riometer	Relative Ionospheric Opacity Meter (originally: Relative Ionospheric Opacity Meter for Extra-Terrestrial Emissions of Radio noise)
RMI(B)	Royal Meteorological Institute (of Belgium)
ROB	Royal Observatory of Belgium
ROT	Rate of TEC change
ROTI	ROT index
RRR	Rolling Requirement Review; WMO system for recording space weather requirements
RS	Reverse shock
RSP	Sweep-frequency radio burst
RSTN	Radio Solar Telescope Network (USAF)
RTK	Real Time Kinematics (DGPS)
RTSW	Real-Time Solar Wind Data (ACE)
RWC	Regional Warning Center
RX	Receiver
σ	Radar cross section
σ_Φ	Scintillation index (phase)
S	(1) Sub flare ; (2) NOAA's scale for Solar radiation storms
s	number of sunspots
S_{min}	Minimal detectable signal
S-band	Radio waves with frequencies ranging from 2 to 4 GHz (IEEE)
S/C	Spacecraft
S4	Scintillation index (amplitude)
SAA	South Atlantic Anomaly
SACS	Support to Aviation Control Service
SAG	Sagamore Hill (RSTN, radio observatory)
SAM	Solar Aspect Monitor (SDO) - No longer operational
SAR	(1) Superactive region; (2) Synthetic Aperture Radar
sat(s)	satellite(s)
SATCOM	Satellite Communications
SBAS	Satellite (Space) -based augmentation systems
SBC	Sector Boundary Crossing
SC	(1) Solar Cycle ; (2) Sudden Commencement
SC24	Solar Cycle 24
SCNA	Sudden Cosmic Noise Absorption
SCORE	CME classification via speed (Slow-Common-Occasional-Rare-Extremely rare)
SCOSTEP	Scientific Committee on Solar Terrestrial Physics
SDA	Sudden Decrease of Atmospherics
SDO	Solar Dynamics Observatory
SEA	Sudden Enhancement of Atmospherics
SEB	Single-event burnout
SECCHI	Sun Earth Connection Coronal and Heliospheric Investigation (STEREO)
SEE	Single Event Effect
SEL	Single-event latch-up
SEM	Solar EUV Monitor (SOHO)
SEP	Solar Energetic Particle
SEPEM	Solar Energetic Particle Environment Modelling (ESA)
SES	Sudden Enhancements of Signal
SESC	Space Environment Services Center
SEU	Single Event Upset (bit flip)
SFA	Sudden Field Anomalies
SFD	Sudden Frequency Deviations
SFE	Solar Flare Effect ("magnetic crochet")
SFU, sfu	Solar Flux Unit (10^{-22} W m^{-2} Hz^{-1})
SHF	Super High Frequency
SI	Sudden Impulse
SID	Sudden Ionospheric Disturbance
SIDC	Solar Influences Data analysis Center
SILSO	Sunspot Index and Long-term Solar Observations
SIR	Stream Interaction Region
SIS	Solar Isotope Spectrometer (ACE)
SITEC	Sudden increase of total electron content
SLP	Sweeping / Segmented / Single/ Split / Spherical Langmuir Probe
SMART-L	Signaal Multibeam Acquisition Radar for Targeting, L-band

SMM	Solar Maximum Mission (1980-1989)
SN, S_n	Sunspot Number
SNAP	Spring – Negative – Autumn – Positve (CHs)
SoFAST	Solar Flare Automated Search Tool
SOHO	SOlar & Heliospheric Observatory
SOON	Solar Observing Optical Network (USAF/AFWA)
SOT	(1) Space Object Tracking ; (2) Solar Optical Telescope (Hinode)
SOTERIA	Solar-Terrestrial Investigations and Archives (EU/FP7)
SPA	Sudden Phase Anomalies
SPE	Solar Proton Event
SPENVIS (-NG)	Space Environment Information System (- Next Generation)
SPWX	Space Weather (military)
sr	steradian
SRB	Solar radio burst
SREM	Standard Radiation Environment Monitor (INTEGRAL)
SSA	Space Situational Awareness
SSB	Solar Sector Boundary
SSC	(1) STEREO Science Center; (2) Storm Sudden Commencement
SSCC	SSA Space Weather Coordination Centre
SSN	SunSpot Number
SSR	(1) Solid state recorder; (2) Secondary Surveillance Radar
ST-A, ST-B	STEREO-A(head), STEREO-B(ehind) spacecraft
STAFF	Solar Timelines viewer for AFFECTS
STCE	Solar-Terrestrial Centre of Excellence
STEC	Slant TEC
STEREO	Solar-TErrestrial RElations Observatory
STIX	X-ray Spectrometer / Telescope (SolO)
SUVI	Solar Ultraviolet Imager (GOES16-)
Sv	Sievert (J/kg ; dose equivalent radiation: equivalent biological effect of the deposit of a joule of radiation energy in a kilogram of human tissue)
SVI	San Vito (RSTN, radio observatory)
SW	(1) Space weather ; (2) Solar wind
SWACI	Space Weather Application Center – Ionosphere (DLR)
SWAP	Sun Watcher using APS detector and image Processing (PROBA2)
SWARM	Three identical satellites measuring Earth's MF (ESA)
SWAVES	STEREO/WAVES instrument (STEREO)
SWE	Space WEather
SWEPAM	Solar Wind Electron, Proton, and Alpha Monitor (ACE)
SWF	ShortWave Fadeouts
SWHV	Space weather helioviewer (jHV)
SWOP	Space Weather Operations group (SIDC)
SWPC	Space Weather Prediction Center
SwRI	Southwest Research Institute
SWRC	Space Weather Research Center
SWS	Space Weather Services (Australia)
SWSC	Space Weather and Space Climate journal
SWx	Space weather
SXI	Solar X-ray Imager (GOES12-15)
SXR	Soft x-rays
SXT	Soft x-rays telescope (Yohkoh)
SYM-H	A geomagnetic index (nT) similar to the Dst index, but with 1-min time resolution and different stations
τ	Ionospheric slab thickness (meters)
T	(1) Tesla (1 Tesla = 10.000 Gauss) (2) Temperature
TACSAT	Tactical Satellite Communications
TEC	Total Electron Content
TECu	TEC unit ($10^{16} e \cdot m^{-2}$)
THz	Terahertz (10^{12}/s)

TID	Travelling Ionospheric Disturbance
TIMED	Thermosphere Ionosphere Mesosphere Energetics and Dynamics (NASA)
TMR	Triple-modular redundancy
TRACE	Transition Region and Coronal Explorer (1998-2010)
TSI	Total Solar Irradiance
TX	Transmitter
UAV	Unmanned Aerial Vehicle
UHF	Ultra High Frequency (300 MHz - 3 GHz)
UiT	University of Tromsϕ ; Arctic University of Norway
UK	United Kingdom
ULB	Université Libre de Bruxelles
UNCOPUOS	United Nations Committee on the Peaceful Use of Outer Space
UNOOSA	United Nations Office for Outer Space Affairs
URSI	International Union of Radio Science – Union Radio-Scientifique Internationale
US(A)	United States (of America)
USAF	United States Air Force
USET	Uccle Solar Equatorial Table
USGS	US Geological Survey
UT(C)	(Coordinated) Universal Time
UV	Ultraviolet
Φ_{60}	Scintillation index (phase)
V	Volt
v	speed
VEX	Venus Express (2005-2015)
VHF	Very High frequency (30-300 MHz)
VLF	Very Low Frequency (3-30 kHz)
VTEC	Vertical TEC
VUB	Vrije Universiteit Brussel
VUV	Vacuum ultraviolet
W	Watt
W/m^2	Watt per square meter
WAAS	Wide Area Augmentation System (USA)
WAMS	Wide Area Monitoring System
WAVES	Radio and plasma wave investigation (WIND, STEREO)
WDC	World Data Center
WL	White light
WLF	White-light flare
WMFR	Weighted mean flare rate
WMO	World Meteorological Organization
WP	Work Package
WRC	World Radiation Center
WS	Workshop
WTD	waiting-time distribution
X-class flare	Extreme x-ray flare
XRS	X-ray sensor (GOES)
Yohkoh	Japanese solar mission (1991-2001)
yr	year
Z	Proton number
Zr	Zirconium
ZTD	Zenith tropospheric Total Delays