

List of abbreviations

ACE-FTS	Atmospheric Chemistry Experiment - Fourier Transform Spectrometer
ACE-MAESTRO	Atmospheric Chemistry Experiment - Measurement of Aerosol Extinction in the Stratosphere and Troposphere Retrieved by Occultation
ADEOS	Advanced Earth Observing Satellite
AERGOM	Aerosol retrieval from GOMOS satellite observations
ATLAS	Atmospheric Laboratory for Applications and Science
ATMOS	Atmospheric Trace Molecule Spectroscopy
CCM	Chemistry-Climate Model
CCMVal	Chemistry-Climate Model Validation Activity
CLAES	Cryogenic Limb Array Etalon Spectrometer
CMAM	Canadian Middle Atmosphere Model
CSA	Canadian Space Agency
ECMWF	European Centre for Medium-Range Weather Forecasts
Envisat	European environmental satellite
EOS	Earth Observing System
EPP	Energetic Particle Precipitation
ESA	European Space Agency
FOV	Field-Of-View
GEOS	Goddard Earth Observing System
GOMOS	Global Ozone Monitoring by Occultation of Stars
GOZCARDS	Global OZone Chemistry And Related trace gas Data records for the Stratosphere
HALOE	Halogen Occultation Experiment
HIRDLS	High Resolution Dynamics Limb Sounder
IGACO	Integrated Global Atmospheric Chemistry Observations
ILAS	Improved Limb Absorption Spectrometer
IO ₃ C	International Ozone Commission
ISAMS	Improved Stratospheric and Mesospheric Sounder
ISSI	International Space Science Institute
JAXA	Japan Aerospace EXploration Agency
JPL	Jet Propulsion Laboratory
LIDAR	Light Detection And Ranging
LIMS	Limb Infrared Monitor of the Stratosphere
LM	Lower Mesosphere
LOS	Line-Of-Sight
LS	Lower Stratosphere

LST	Local Solar Time
MAD	Median Absolute Deviation
MAS	Microwave Atmospheric Sounder
MAX	Maximum
MEaSUREs	Making Earth Science data records for Use in Research Environments
MIM	Multi-Instrument Mean
MIN	Minimum
MIPAS	Michelson Interferometer for Passive Atmospheric Sounding
MLS	Microwave Limb Sounder
MS	Middle Stratosphere
MSIS	Mass-Spectrometer-Incoherent-Scatter model
NASA	National Aeronautics and Space Administration
NCEP	National Centers for Environmental Prediction
NDACC	Network for Detection of Atmospheric Composition Change
NH	Northern Hemisphere
O ₃ -CCI	Ozone - Climate Change Initiative
OSIRIS	Optical Spectrograph and InfraRed Imager System
POAM	Polar Ozone and Aerosol Measurement
PSC	Polar Stratospheric Clouds
QBO	Quasi-Biennial Oscillation
SAGE	Stratospheric Aerosol and Gas Experiment
SAO	Semi-Annual Oscillation
SAMS	Stratospheric and Mesospheric Sounder
SCIAMACHY	SCanning Imaging Absorption spectroMeter for Atmospheric CHartographY
SD	Standard Deviation
SEM	Standard Error of the Mean
SH	Southern Hemisphere
SP ² N	SPARC, IO ₃ C, IGACO-O ₃ /UV and NDACC Ozone Profile Phase II Initiative
SMILES	Superconducting sub-Millimeter-wave Limb-Emission Sounder
SMR	Sub-Millimetre Radiometer
SNSB	Swedish National Space Board
SPARC	Stratosphere-troposphere Processes And their Role in Climate
SR	SunRise
SS	SunSet
SSiRC	Stratospheric Sulfur and its Role in Climate
SZA	Solar Zenith Angle
TES	Tropospheric Emission Spectrometer
UARS	Upper Atmosphere Research Satellite
UKMO	United Kingdom Meteorological Office
US	Upper Stratosphere
UT	Upper Troposphere

VMR	Volume Mixing Ratio
WACCM	Whole Atmosphere Community Climate Model
WAVAS II	Water Vapour Assessment phase 2
WCRP	World Climate Research Programme