

# AVIII

## Annex VIII: Acronyms

**This annex should be cited as:**

IPCC, 2021: Annex VIII: Acronyms. In *Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 2257–2266.

<b>20CR</b>	20th Century Reanalysis	<b>AO</b>	Arctic Oscillation
<b>A1B</b>	Special Report on Emissions Scenarios A1B scenario	<b>AOD</b>	aerosol optical depth
<b>AABW</b>	Antarctic bottom water	<b>AOGCM</b>	atmosphere–ocean general circulation model
<b>AAIW</b>	Antarctic intermediate water	<b>AP</b>	Antarctic Peninsula
<b>AAO</b>	Antarctic Oscillation	<b>AQ</b>	air quality
<b>abrupt4xCO<sub>2</sub></b>	Scenario with abrupt quadrupling of the atmospheric concentration of carbon dioxide	<b>AR4</b>	IPCC Fourth Assessment Report
<b>ACC</b>	Antarctic Circumpolar Current	<b>AR5</b>	IPCC Fifth Assessment Report
<b>ACCESS</b>	Australian Community Climate and Earth System Simulator	<b>AR6</b>	IPCC Sixth Assessment Report
<b>ACCMIP</b>	Atmospheric Chemistry and Climate Model Intercomparison Project	<b>ARO</b>	Arctic Ocean
<b>ACE</b>	Accumulated Cyclone Energy	<b>ARP</b>	Arabian Peninsula
<b>AED</b>	atmospheric evaporative demand	<b>ARS</b>	Arabian Sea
<b>AerChemMIP</b>	Aerosols and Chemistry Model Intercomparison Project	<b>ASE</b>	Amundsen Sea Embayment
<b>AeroCom</b>	Aerosol Comparisons between Observations and Models project	<b>AUS</b>	Australasia
<b>AERONET</b>	Aerosol Robotic Network	<b>AusMCM</b>	Australian–Maritime Continent monsoon
<b>AEW</b>	African Easterly Wave	<b>AVHRR</b>	Advanced Very High Resolution Radiometer
<b>AF</b>	airborne fraction of CO <sub>2</sub>	<b>AZM</b>	Atlantic Zonal Modes
<b>AFOLU</b>	agriculture, forestry and other land use	<b>BC</b>	black carbon
<b>AFR</b>	Africa	<b>BCE</b>	Before the Common Era
<b>AGAGE</b>	Advanced Global Atmospheric Gases Experiment	<b>BCP</b>	biological carbon pump
<b>AGCM</b>	atmospheric global climate model	<b>BE</b>	Berkeley Earth
<b>AGFP</b>	absolute global forcing potential	<b>BECCS</b>	bioenergy with carbon capture and storage
<b>AGR/ECOL</b>	agriculture and ecological droughts	<b>BOB</b>	Bay of Bengal
<b>AGTP</b>	absolute global temperature change potential	<b>BP</b>	before the present
<b>AGWP</b>	absolute global warming potentials	<b>BrC</b>	brown carbon
<b>AIRS</b>	Atmospheric Infrared Sounder	<b>BSISO</b>	boreal summer intra-seasonal oscillation
<b>AIS</b>	Antarctic Ice Sheet	<b>BU</b>	bottom up
<b>ALL</b>	all forcings	<b>BVOC</b>	biogenic volatile organic compound
<b>ALT</b>	active layer thickness	<b>C3S</b>	Copernicus Climate Change Service
<b>AMIP</b>	Atmospheric Model Intercomparison Project	<b>C4MIP</b>	Coupled Climate Carbon Cycle Model Intercomparison Project
<b>AMM</b>	Atlantic Meridional Mode	<b>CAF</b>	Central Africa
<b>AMMA</b>	African Monsoon Multidisciplinary Analyses	<b>CAM</b>	Central America
<b>AMO</b>	Atlantic Multi-decadal Oscillation	<b>CAMS</b>	Copernicus Atmosphere Monitoring Service
<b>AMOC</b>	Atlantic Meridional Overturning Circulation	<b>CanESM2</b>	Canadian Earth System Model version 2
<b>AMSU</b>	Advanced Microwave Sounding Unit	<b>CanESM5</b>	Canadian Earth System Model version 5
<b>AMV</b>	Atlantic Multi-decadal Variability	<b>CAPE</b>	convective available potential energy
		<b>CAR</b>	Caribbean
		<b>CAU</b>	Central Australia
		<b>CCM</b>	chemistry–climate model

<b>CCMI</b>	Chemistry–Climate Modelling Initiative	<b>CORDEX</b>	Coordinated Regional Climate Downscaling Experiment
<b>CCN</b>	cloud condensation nuclei	<b>COSMO</b>	Consortium for Small-scale Modeling
<b>CCS</b>	carbon dioxide capture and storage	<b>COVID-19</b>	coronavirus disease of 2019
<b>CCT</b>	cirrus cloud thinning	<b>CP</b>	Central Pacific
<b>CD</b>	cooling degree days	<b>CPM</b>	convection-permitting model
<b>CDD</b>	consecutive dry days	<b>CRA</b>	climate risk and adaptation assessment
<b>CDR</b>	carbon dioxide removal	<b>CRE</b>	cloud radiative effect
<b>CDRMIP</b>	Carbon Dioxide Removal Model Intercomparison Project	<b>CRM</b>	cloud resolving model
<b>CDW</b>	Circumpolar Deep Water	<b>CRU</b>	Climate Research Unit
<b>CE</b>	Common Era	<b>CRUTEM</b>	Climatic Research Unit gridded global historical near-surface air temperature dataset
<b>CEDS</b>	Community Emissions Data System	<b>CRUTS</b>	Climatic Research Unit gridded time-series dataset
<b>CERES</b>	Clouds and the Earth’s Radiant Energy System	<b>CSIRO</b>	Commonwealth Scientific and Industrial Research Organisation
<b>CESM</b>	Community Earth System Model	<b>DACCS</b>	direct air carbon capture with carbon storage
<b>CFCs</b>	chlorofluorocarbons	<b>DAMIP</b>	Detection and Attribution Model Intercomparison Project
<b>CFMIP</b>	Cloud Feedback Model Intercomparison Project	<b>DCPP</b>	Decadal Climate Prediction Project
<b>CFSR</b>	Climate Forecast System Reanalysis	<b>DECK</b>	Diagnostic, Evaluation and Characterization of Klima
<b>CGTP</b>	combined global temperature change potential	<b>DeepMIP</b>	Deep-Time Model Intercomparison Project
<b>CH<sub>4</sub></b>	methane	<b>DF</b>	drought frequency
<b>CICERO</b>	Center for International Climate and Environment Research	<b>DGVM</b>	dynamic global vegetation model
<b>CID</b>	climatic impact-driver	<b>DI</b>	Drought Index
<b>CISM2</b>	Community Ice Sheet Model 2	<b>DIC</b>	dissolved inorganic carbon
<b>CLLJ</b>	Caribbean low-level jet	<b>DJF</b>	December–January–February
<b>CLSAT</b>	China Land Surface Air Temperature	<b>DJFM</b>	December–January–February–March
<b>CMAP</b>	NOAA Climate Prediction Center Merged Analysis of Precipitation	<b>DMS</b>	dimethyl sulphide
<b>CMIP</b>	Coupled Model Intercomparison Project	<b>DTR</b>	diurnal temperature range
<b>CMIP3</b>	Coupled Model Intercomparison Project Phase 3	<b>DU</b>	Dobson Units
<b>CMIP5</b>	Coupled Model Intercomparison Project Phase 5	<b>EAIS</b>	East Antarctic Ice Sheet
<b>CMIP6</b>	Coupled Model Intercomparison Project Phase 6	<b>EAN</b>	East Antarctica
<b>CNA</b>	Central North America	<b>EAO</b>	Equatorial Atlantic Ocean
<b>CNRM</b>	Centre National de la Recherche Météorologique	<b>EAS</b>	East Asia
<b>CO</b>	carbon monoxide	<b>EAsiaM</b>	East Asian monsoon
<b>CO<sub>2</sub></b>	carbon dioxide	<b>EASM</b>	East Asian summer monsoon
<b>CO<sub>2</sub>-eq</b>	carbon dioxide equivalent	<b>EAU</b>	Eastern Australia
<b>COBE</b>	Centennial in situ Observation-Based Estimates of Sea Surface Temperature	<b>EAWM</b>	East Asian winter monsoon
		<b>EBAF</b>	CERES Energy Balanced and Filled climate data record

<b>EBM</b>	Energy Balance Model	<b>ESM</b>	Earth system model
<b>EBUS</b>	Eastern boundary upwelling systems	<b>ESMValTool</b>	Earth System Model Evaluation Tool
<b>ECMWF</b>	European Centre for Medium-Range Weather Forecasts	<b>ESRL</b>	NOAA Earth System Research Laboratory
<b>ECS</b>	equilibrium climate sensitivity	<b>ESWL</b>	extreme still water levels
<b>ECV</b>	Essential Climate Variable	<b>ET</b>	evapotranspiration
<b>ECWL</b>	Extreme Coastal Water Level	<b>ETC</b>	extratropical cyclone
<b>EDW</b>	elevation-dependent warming	<b>ETCCDI</b>	Expert Team on Climate Change Detection and Indices
<b>EECO</b>	Early Eocene Climatic Optimum	<b>ETWL</b>	Extreme Total Water Level
<b>EEU</b>	Eastern Europe	<b>EU</b>	European Union
<b>EgC</b>	exagrams of carbon (1000 petagrams of carbon)	<b>FaIR</b>	Finite Amplitude Impulse Response simple climate model
<b>EIO</b>	Equatorial Indian Ocean	<b>FAIR</b>	Findable, Accessible, Interoperable and Reusable principles
<b>EMIC</b>	Earth models of intermediate complexity	<b>FAPAR</b>	fraction of absorbed photosynthetically active radiation
<b>ENA</b>	Eastern North America	<b>FAR</b>	IPCC First Assessment Report
<b>ENSO</b>	El Niño–Southern Oscillation	<b>FD</b>	frost days
<b>EOF</b>	empirical orthogonal function	<b>FESOM</b>	Finite Element Sea ice/Ice Shelf Ocean Model
<b>EOV</b>	Essential Ocean Variable	<b>FFDI</b>	Forest Fire Danger Index
<b>EP</b>	Eastern Pacific	<b>FOLU</b>	forestry and other land use
<b>EPA</b>	USA Environmental Protection Agency	<b>fsST</b>	fixed-sea surface temperature
<b>EPO</b>	Equatorial Pacific Ocean	<b>GCM</b>	general circulation model or global climate model
<b>EqAmer</b>	equatorial America	<b>GCOS</b>	Global Climate Observing System
<b>ERA-Interim</b>	ECMWF global reanalysis	<b>GCP</b>	Global Carbon Project
<b>ERA20C</b>	ECMWF 20th century reanalysis	<b>GDD</b>	growing degree days
<b>ERA20CM</b>	ECMWF 20th century atmospheric model ensemble	<b>GDP</b>	gross domestic product
<b>ERA5</b>	ECMWF global reanalysis (replaces ERA-Interim)	<b>GeoMIP</b>	Geoengineering Model Intercomparison Project
<b>ERF</b>	effective radiative forcing	<b>GFCS</b>	Global Framework for Climate Services
<b>ERFaci</b>	effective radiative forcing due to aerosol–cloud interactions	<b>GFDL</b>	NOAA Geophysical Fluid Dynamics Laboratory
<b>ERFari</b>	effective radiative forcing due to in aerosol–radiation interactions	<b>GHCN</b>	NOAA Global Historical Climatology Network
<b>ERSST</b>	Extended Reconstructed Sea Surface Temperature	<b>GHCNd</b>	NOAA Global Historical Climatology Network daily database
<b>ESA</b>	European Space Agency	<b>GHCNv4</b>	NOAA Global Historical Climatology Network monthly database version 4
<b>ESA CCI</b>	European Space Agency Climate Change Initiative	<b>GHG</b>	greenhouse gas
<b>ESAF</b>	East Southern Africa	<b>GHM</b>	global hydrological model
<b>ESB</b>	East Siberia	<b>GIA</b>	glacial isostatic adjustment
<b>ESGF</b>	Earth System Grid Federation	<b>GIC</b>	Greenland/Iceland
<b>ESL</b>	extreme sea level	<b>GISS</b>	NASA Goddard Institute for Space Studies

<b>GISTEMP</b>	NASA Goddard Institute for Space Studies Surface Temperature Analysis	<b>HI</b>	heat index
<b>GlacierMIP</b>	Glacier Model Intercomparison Project	<b>HighResMIP</b>	High Resolution Model Intercomparison Project
<b>GLDAS</b>	Global Land Data Assimilation System	<b>HKH</b>	Hindu Kush Himalaya
<b>GloGEM</b>	Global Glacier Evolution Model	<b>HNO<sub>3</sub></b>	nitric acid
<b>GM</b>	Global monsoon	<b>IAPOS</b>	In-service Aircraft for a Global Observing System
<b>GMMIP</b>	Global Monsoons Model Intercomparison Project	<b>IAM</b>	integrated assessment model
<b>GMSL</b>	global mean sea level	<b>ICE</b>	initial condition ensemble
<b>GMST</b>	global mean surface temperature	<b>ICESat</b>	Ice, Cloud and land Elevation Satellite
<b>GMTSL</b>	global mean thermosteric sea level	<b>ICOADS</b>	International Comprehensive Ocean–Atmosphere Data Set
<b>GNSS</b>	Global Navigation Satellite System	<b>IMBIE</b>	Ice Sheet Mass Balance Intercomparison Exercise
<b>GOME</b>	Global Ozone Monitoring Experiment	<b>INP</b>	ice nucleating particle
<b>GOSAT</b>	Greenhouse Gases Observing Satellite	<b>IOB</b>	Indian Ocean Basin
<b>GPCC</b>	Global Precipitation Climatology Centre	<b>IOD</b>	Indian Ocean Dipole
<b>GPCP</b>	Global Precipitation Climatology Project	<b>IPBES</b>	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
<b>GPM</b>	Global Precipitation Mission	<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>GPS</b>	Global Positioning System	<b>IPO</b>	Inter-decadal Pacific Oscillation
<b>GRACE</b>	Gravity Recovery and Climate Experiment	<b>IPSL</b>	Institut Pierre-Simon Laplace
<b>GRD</b>	gravitational, rotational and deformational	<b>IRF</b>	instantaneous radiative forcing
<b>GrIS</b>	Greenland Ice Sheet	<b>IRFaci</b>	Instantaneous radiative forcing (or effect) due to aerosol-cloud interactions
<b>GSAT</b>	global surface air temperature	<b>IRFari</b>	Instantaneous radiative forcing (or effect) due to aerosol–radiation interactions
<b>GSMaP</b>	Global Satellite Mapping of Precipitation dataset	<b>ISIMIP</b>	Inter-Sectoral Impact Model Intercomparison Project
<b>GtC</b>	gigatonnes of carbon	<b>ITCZ</b>	Inter-tropical Convergence Zone
<b>GtCO<sub>2</sub></b>	gigatonnes of carbon dioxide	<b>ITF</b>	Indonesian throughflow
<b>GTP</b>	global temperature change potential	<b>JAS</b>	July–August–September
<b>GWL</b>	global warming level	<b>JAXA</b>	Japan Aerospace Exploration Agency
<b>GWP</b>	global warming potential	<b>JJA</b>	June–July–August
<b>HadCRUT</b>	Hadley Centre Climatic Research Unit gridded surface temperature dataset	<b>JJAS</b>	June–July–August–September
<b>HadEX3</b>	Hadley Centre gridded land surface extremes indices	<b>JMA</b>	Japan Meteorological Agency
<b>HadGEM</b>	Hadley Centre Global Environment Model	<b>JRA-55</b>	Japanese 55-year Reanalysis
<b>HadISST</b>	Hadley Centre Ice and Sea Surface Temperature dataset	<b>LAI</b>	leaf area index
<b>HadSST</b>	Hadley Centre Sea Surface Temperature dataset	<b>LAP</b>	light-absorbing particle
<b>HC</b>	Hadley circulation	<b>LARMIP</b>	Linear Antarctic Response Model Intercomparison Project
<b>HCFC</b>	hydrochlorofluorocarbon	<b>LDT</b>	Last deglacial transition
<b>HD</b>	heating degree days		
<b>HFC</b>	hydrofluorocarbon		

<b>LEO</b>	low Earth orbit	<b>MODIS</b>	Moderate Resolution Imaging Spectroradiometer
<b>LGM</b>	Last Glacial Maximum	<b>MPI</b>	Max Planck Institute for Meteorology
<b>LIG</b>	Last Interglacial	<b>MPWP</b>	mid-Pliocene Warm Period
<b>LLGHG</b>	long-lived greenhouse gas	<b>MRI</b>	Meteorological Research Institute, Japan Meteorological Agency
<b>LLHI</b>	Low-likelihood, high-impact	<b>MSD</b>	midsummer drought
<b>LNO<sub>x</sub></b>	lightning NO <sub>x</sub>	<b>MTFR</b>	maximum technically feasible reductions
<b>LR</b>	lapse rate	<b>N<sub>2</sub>O</b>	nitrous oxide
<b>LSAT</b>	land surface air temperature	<b>NADW</b>	North Atlantic Deep Water
<b>LUC</b>	land-use change	<b>NAM</b>	Northern Annular Mode
<b>LULUCF</b>	land use, land-use change and forestry	<b>NAmerM</b>	North American monsoon
<b>LW</b>	longwave	<b>NAO</b>	North Atlantic Oscillation
<b>LWP</b>	liquid water path	<b>NARCCAP</b>	North American Regional Climate Change Assessment Program
<b>LWS</b>	land-water storage	<b>NASA</b>	USA National Aeronautics and Space Administration
<b>MAGICC</b>	Model for the Assessment of Greenhouse Gas Induced Climate Change	<b>NASH</b>	North Atlantic Subtropical High
<b>MAM</b>	March–April–May	<b>NAU</b>	Northern Australia
<b>MAT</b>	marine air temperature	<b>NBP</b>	Net Biome Productivity
<b>MCB</b>	marine cloud brightening	<b>NCA</b>	Northern Central America
<b>MCO</b>	Miocene Climatic Optimum	<b>NCAR</b>	National Center for Atmospheric Research
<b>MCS</b>	mesoscale convective system	<b>NCEI</b>	NOAA National Centers for Environmental Information
<b>MDG</b>	Madagascar	<b>NCEP</b>	NOAA National Centers for Environmental Prediction
<b>MED</b>	Mediterranean	<b>NDC</b>	Nationally Determined Contribution
<b>MENA</b>	Middle East North Africa	<b>NDD</b>	number of dry days
<b>MERRA</b>	Modern-Era Retrospective Analysis for Research and Applications	<b>NDVI</b>	Normalized Difference Vegetation Index
<b>METACLIP</b>	Metadata for climate products project	<b>NEAF</b>	North Eastern Africa
<b>MH</b>	mid-Holocene	<b>NEN</b>	North-Eastern North America
<b>MHW</b>	marine heatwave	<b>NES</b>	North-Eastern South America
<b>MICI</b>	marine ice cliff instability	<b>NEU</b>	Northern Europe
<b>MIP</b>	Model Intercomparison Project	<b>NH</b>	Northern Hemisphere
<b>MIROC</b>	Model for Interdisciplinary Research on Climate	<b>NH<sub>3</sub></b>	ammonia
<b>MIS</b>	Marine Isotope Stage	<b>NH<sub>4</sub></b>	ammonium
<b>MISI</b>	marine ice sheet instability	<b>NMAT</b>	nighttime marine air temperature
<b>MISMIP</b>	Marine Ice Sheet Model Intercomparison Projects	<b>NMVOC</b>	non-methane volatile organic compound
<b>MJO</b>	Madden–Julian Oscillation	<b>NO<sub>2</sub></b>	nitrogen dioxide
<b>MLO</b>	Mauna Loa Observatory	<b>NO<sub>3</sub></b>	nitrate
<b>MME</b>	multi-model ensemble	<b>NOAA</b>	USA National Oceanic and Atmospheric Administration
<b>MOC</b>	meridional overturning circulation		

<b>NOAA</b> <b>GlobalTemp</b>	NOAA Merged Land Ocean Global Surface Temperature Analysis	<b>POA</b>	primary organic aerosols
<b>NorESM</b>	Norwegian Earth System Model	<b>PP</b>	primary production
<b>NO<sub>x</sub></b>	nitrogen oxides	<b>PSS-78</b>	Practical Salinity Scale 1978
<b>NPO</b>	North Pacific Ocean	<b>QBO</b>	quasi-biennial oscillation
<b>NPP</b>	net primary production	<b>RAR</b>	Russian Arctic Region
<b>NSA</b>	Northern South America	<b>RCM</b>	regional climate model
<b>NWN</b>	North-Western North America	<b>RCMIP</b>	Reduced Complexity Model Intercomparison Project
<b>NWS</b>	North-Western South America	<b>RCP</b>	Representative Concentration Pathway
<b>NZ</b>	New Zealand	<b>RF</b>	radiative forcing
<b>OA</b>	organic aerosols	<b>RFC</b>	Reasons for Concern
<b>OC</b>	organic carbon	<b>RFE</b>	Russian Far East
<b>ODS</b>	ozone depleting substances	<b>RFMIP</b>	Radiative Forcing Model Intercomparison Project
<b>OECD</b>	Organisation for Economic Co-operation and Development	<b>RH</b>	relative humidity
<b>OH</b>	hydroxyl radical	<b>RICH</b>	Radiosonde Innovation Composite Homogenization
<b>OHC</b>	ocean heat content	<b>RKR</b>	Representative Key Risk
<b>OLR</b>	outgoing longwave radiation	<b>RO</b>	radio occultation
<b>OLS</b>	ordinary least squares	<b>RSL</b>	relative sea level
<b>OMI</b>	Ozone Monitoring Instrument	<b>RSLR</b>	relative sea level rise
<b>OMIP</b>	Ocean Model Intercomparison Project	<b>SAH</b>	Sahara
<b>PA</b>	Paris Agreement	<b>SAI</b>	stratospheric aerosol injection
<b>PAGES 2K</b>	Past Global Changes 2k consortium	<b>SAM</b>	Southern Annular Mode
<b>PC</b>	principal component	<b>SAmerM</b>	South American monsoon
<b>pCO<sub>2</sub></b>	partial pressure of CO <sub>2</sub>	<b>SAO</b>	South Atlantic Ocean
<b>PDO</b>	Pacific Decadal Oscillation	<b>SAOD</b>	stratospheric aerosol optical depth
<b>PDSI</b>	Palmer Drought Severity Index	<b>SAR</b>	IPCC Second Assessment Report
<b>PDV</b>	Pacific Decadal Variability	<b>SARF</b>	stratospheric-temperature-adjusted radiative forcing
<b>PERSIANN-CDR</b>	Precipitation estimations from Remotely Sensed Information using Artificial Neural Networks Climate Data Record	<b>SAS</b>	South Asia
<b>PETM</b>	Paleocene–Eocene Thermal Maximum	<b>SAsiaM</b>	South and South East Asian monsoon
<b>PgC</b>	petagrams of carbon	<b>SAT</b>	surface air temperature
<b>PgCeq</b>	petagrams of carbon equivalent	<b>SAU</b>	Southern Australia
<b>PlioMIP</b>	Pliocene Model Intercomparison Project	<b>SCA</b>	Southern Central America
<b>PM</b>	particulate matter	<b>SCE</b>	snow cover extent
<b>PM<sub>10</sub></b>	particulate matter with diameter of less than 10 microns	<b>ScenarioMIP</b>	Scenario Model Intercomparison Project
<b>PM<sub>2.5</sub></b>	particulate matter with diameter of less than 2.5 microns	<b>SCM</b>	simple climate model
<b>PMIP</b>	Paleoclimate Modelling Intercomparison Project	<b>SDG</b>	Sustainable Development Goals
		<b>SEA</b>	South East Asia
		<b>SEAF</b>	South Eastern Africa

<b>SED</b>	Structured Expert Dialogue	<b>SSP</b>	Shared Socio-economic Pathways
<b>SEJ</b>	Structured Expert Judgement	<b>SST</b>	sea surface temperature
<b>SES</b>	South-Eastern South America	<b>SSW</b>	sudden stratospheric warming
<b>SF<sub>6</sub></b>	sulphur hexaflouride	<b>STE</b>	stratosphere–troposphere exchange
<b>SH</b>	Southern Hemisphere	<b>SW</b>	shortwave
<b>SIA</b>	sea ice area	<b>SWE</b>	snow water equivalent
<b>SIDS</b>	Small Island Developing States	<b>SWS</b>	South-Western South America
<b>SIE</b>	sea ice extent	<b>SWV</b>	stratospheric water vapour
<b>SLCF</b>	short-lived climate forcer	<b>TAR</b>	IPCC Third Assessment Report
<b>SLE</b>	sea level equivalent	<b>TAV</b>	Tropical Atlantic Variability
<b>SLP</b>	sea level pressure	<b>TC</b>	tropical cyclone
<b>SLR</b>	sea level rise	<b>TCR</b>	transient climate response
<b>SMAP</b>	Soil Moisture Active Passive	<b>TCRE</b>	transient climate response to cumulative CO <sub>2</sub> emissions
<b>SMB</b>	surface mass balance	<b>TCWV</b>	total column water vapour
<b>SMILE</b>	single-model initial-condition large ensemble	<b>Tg</b>	teragrams
<b>SO<sub>2</sub></b>	sulphur dioxide	<b>ThSL</b>	thermosteric sea level
<b>SO<sub>4</sub><sup>2-</sup></b>	sulphate	<b>TIB</b>	Tibetan Plateau
<b>SOA</b>	secondary organic aerosols	<b>TNn</b>	annual minimum daily minimum temperature
<b>SOI</b>	Southern Oscillation Index	<b>TNx</b>	annual maximum daily minimum temperature
<b>SON</b>	September–October–November	<b>TOA</b>	the net top-of-the-atmosphere
<b>SOO</b>	Southern Ocean	<b>ToE</b>	time of emergence
<b>SO<sub>x</sub></b>	sulphur oxides	<b>TPI</b>	tripole Index
<b>SPCZ</b>	South Pacific Convergence Zone	<b>TRMM</b>	Tropical Rainfall Measuring Mission
<b>SPEI</b>	Standardized Precipitation Evapotranspiration Index	<b>TS</b>	Technical Summary
<b>SPI</b>	Standardized Precipitation Index	<b>TSI</b>	total solar irradiance
<b>SPM</b>	Summary for Policymakers	<b>UAH</b>	University of Alabama in Huntsville
<b>SPO</b>	South Pacific Ocean or South Pole Observatory	<b>UHI</b>	urban heat island
<b>SR1.5</b>	IPCC Special Report on Global Warming of 1.5°C	<b>UN</b>	United Nations
<b>SRCCL</b>	IPCC Special Report on Climate Change and Land	<b>UNEP</b>	United Nations Environment Programme
<b>SRES</b>	IPCC Special Report on Emissions Scenarios	<b>UNFCCC</b>	United Nations Framework Convention on Climate Change
<b>SREX</b>	IPCC Special Report on Managing the Risk of Extreme Events and Disasters to Advance Climate Change Adaptation	<b>UTLS</b>	upper troposphere and lower stratosphere
<b>SRI</b>	Standardized Runoff Index	<b>UV</b>	ultraviolet
<b>SRM</b>	solar radiation modification	<b>UVic ESCM</b>	University of Victoria Earth System Climate Model
<b>SROCC</b>	IPCC Special Report on the Ocean and Cryosphere in a Changing Climate	<b>VLM</b>	vertical land motion
<b>SSA</b>	Southern South America	<b>VOC</b>	volatile organic compounds
		<b>VPD</b>	vapour pressure deficit
		<b>VSLS</b>	very short-lived halogenated species

<b>WAF</b>	Western Africa
<b>WAfriM</b>	West African monsoon
<b>WAIS</b>	West Antarctic Ice Sheet
<b>WAN</b>	West Antarctica
<b>WBC</b>	western boundary current
<b>WBGT</b>	wet bulb globe temperature
<b>WC</b>	Walker circulation
<b>WCA</b>	West Central Asia
<b>WCE</b>	Western and Central Europe
<b>WCRP</b>	World Climate Research Programme
<b>WG</b>	IPCC Working Group
<b>WHO</b>	World Health Organization
<b>WMGHG</b>	well-mixed greenhouse gas
<b>WMO</b>	World Meteorological Organization
<b>WNA</b>	Western North America
<b>WNP</b>	Western North Pacific
<b>WOA18</b>	World Ocean Atlas 2018
<b>WSAF</b>	West Southern Africa
<b>WSB</b>	Wilkes Subglacial Basin
<b>WUE</b>	water-use efficiency
<b>YJ</b>	yottajoule, $10^{24}$ joules
<b>ZEC</b>	zero emissions commitment
<b>ZJ</b>	zettajoule, $10^{21}$ joules

