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Annex IV: Acronyms

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μmol	Micromole	ARFI	Aerosol Radiative Forcing over India
20C3M	20th Century Climate in Coupled Models	ari	Aerosol–Radiation Interactions
AABW	Antarctic Bottom Water	ARM	Atmospheric Radiation Measurement
AAIW	Antarctic Intermediate Water	ARTIST	Arctic Radiation and Turbulence Interaction Study
AAO	Antarctic Oscillation	ATL3	Atlantic 3
AATSR	Advanced Along Track Scanning Radiometer	ATSR	Along Track Scanning Radiometer
ABA	AMSR Bootstrap Algorithm	AUSMC	Australian-Maritime Continent
ACC	Antarctic Circumpolar Current	AVHRR	Advanced Very High Resolution Radiometer
ACCENT	Atmospheric Composition Change: a European Network	AVISO	Archiving, Validation and Interpretation of Satellite Oceanographic Data
aci	Aerosol–Cloud Interactions	BATS	Bermuda Atlantic Time Series Study
ACRIM	Active Cavity Radiometer Irradiance Monitor	BC	Black Carbon
ACW	Antarctic Circumpolar Wave	BCC	Beijing Climate Center
AeroCom	Aerosol Model Intercomparison	BCC-CSM	Beijing Climate Center-Climate System Model
AERONET	Aerosol Robotic Network	BDC	Brewer–Dobson Circulation
A-FORCE	Aerosol Radiative Forcing in East Asia Aircraft Campaign	BECCS	Bio-Energy with Carbon-Capture and Storage
AGAGE	Advanced Global Atmospheric Gases Experiment	BMI	Basin Mean Index
AGCM	Atmospheric General Circulation Model	BNF	Biological Nitrogen Fixation
AGTP	Absolute Global Temperature Change Potential	BOM	Bureau of Meteorology
AGWP	Absolute Global Warming Potential	C₂Cl₄	Tetrachloroethene
AIC	Aircraft-Induced Cirrus	C⁴MIP	Coupled Climate Carbon Cycle Model Intercomparison Project
ALOHA	A Long-term Oligotrophic Habitat Assessment	CaCO₃	Calcium Carbonate
AMIP	Atmospheric Model Intercomparison Project	CALIOp	Cloud-Aerosol Lidar with Orthogonal Polarization
AMM	Atlantic Meridional Mode	CALIPSO	Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations
AMO	Atlantic Multi-decadal Oscillation	CAM	Community Atmosphere Model
AMOC	Atlantic Meridional Overturning Circulation	CAMS	Climate Anomaly Monitoring System
AMSR	Advanced Microwave Scanning Radiometer	CanESM	Canadian Earth System Model
AMSU	Advanced Microwave Sounding Unit	CASTNET	Clean Air Status and Trends Network
AMV	Atlantic Multi-decadal Variability	CCCma	Canadian Centre for Climate Modelling and Analysis
AO	Arctic Oscillation	CCl₄	Carbon Tetrachloride
AOD	Aerosol Optical Depth	CCM	Chemistry–Climate Model
AOGCM	Atmosphere–Ocean General Circulation Model	CCMVal	Chemistry–Climate Model Validation
APHRODITE	Asian Precipitation – Highly Resolved Observational Data Integration Towards Evaluation	CCN	Cloud Condensation Nuclei
AR4	IPCC Fourth Assessment Report	CCR	Carbon Climate Response
ARCPAC	Aerosol, Radiation, and Cloud Processes affecting Arctic Climate	CCSM	Community Climate System Model
ARCTAS	Arctic Research of the Composition of the Troposphere from Aircraft and Satellites	CCSR	Centre for Climate System Research
		CDD	Consecutive Dry Days

CDIAC	Carbon Dioxide Information Analysis Center	COCO	CCSR Ocean Component Model
CDR	Carbon Dioxide Removal	COHMAP	Cooperative Holocene Mapping Project
CDW	Circumpolar Deep Water	CORE	Coordinated Ocean-ice Reference Experiments
CE	Common Era	COWCLIP	Coordinated Ocean Wave Climate Project
CERES	Cloud and the Earth's Radiant Energy System	COWL	Cold Ocean/Warm Land
CESM	Community Earth System Model	CPC	Climate Prediction Center (NOAA)
CESM1-BGC	Community Earth System Model 1–Biogeochemical	CPR	Cloud Profiling Radar
CF₄	Perfluoromethane	CRE	Cloud Radiative Effect
CFC	Chlorofluorocarbon	CRU	Climatic Research Unit
CFC-11	Trichlorofluoromethane (CFCl ₃)	CRUTEM4	Climatic Research Unit Gridded Dataset of Global Historical Near-Surface Air TEMperature Anomalies Over Land Version 4
CFC-113	Trichlorotrifluoroethane (CF ₂ ClCFCl ₂)	CS	Complex Ocean Sediment Model
CFC-12	Dichlorodifluoromethane (CF ₂ Cl ₂)	CSFR	Climate Forecast System Reanalysis
CFMIP	Cloud Feedback Model Intercomparison Project	CSIRO	Commonwealth Scientific and Industrial Research Organisation
CFSRR	Climate Forecast System Reanalysis and Reforecast	CWC	Cumulative Warming Commitment
CGCM	Coupled General Circulation Model	DCESS	Danish Center for Earth System Science
CH₂Cl₂	Dichloromethane	DIC	Dissolved Inorganic Carbon
CH₃Br	Bromomethane	DJF	December, January and February
CH₃CCl₃	Methyl Chloroform	DMI	Directional Movement Index
CH₃Cl	Chloromethane	DMS	Dimethyl Sulphide
CH₄	Methane	DO	Dissolved Oxygen; also Dansgaard-Oeschger
CLIMAP	Climate: Long-range Investigation, Mapping, and Prediction	DOC	Dissolved Organic Carbon
CLIMBER-2	Climate and Biosphere Model	DOE	Department of Energy
CLIO	Coupled Large-scale Ice-Ocean Model	DTR	Diurnal Temperature Range
CLM4C	Community Land Model for Carbon	DU	Dobson Units
CLM4CN	Community Land Model for Carbon–Nitrogen	EAS	East Asian Summer
CMAP	CPC Merged Analysis of Precipitation	EASM	East Asian Summer Monsoon
CMDL	Climate Monitoring and Diagnostics Laboratory (NOAA)	EBC	Equivalent Black Carbon
CMIP3	Coupled Model Intercomparison Project Phase 3	EBM	Energy Balance Model
CMIP5	Coupled Model Intercomparison Project Phase 5	ECBILT	Coupled Atmosphere Ocean Model from de Bilt
CNRM	Centre National de Recherches Météorologiques	ECHAM	ECMWF and Hamburg
CO	Carbon Monoxide	ECHO-G	ECHAM4+HOPE-G
CO₂	Carbon Dioxide	ECMWF	European Centre for Medium Range Weather Forecasts
CO₃²⁻	Carbonate	ECS	Equilibrium Climate Sensitivity
COADS	Comprehensive Ocean–Atmosphere Data Set	EDGAR	Emission Database for Global Atmospheric Research
COBE-SST	Centennial in situ Observation-Based Estimates of Sea Surface Temperature	EMIC	Earth System Model of Intermediate Complexity

ENSO	El Niño-Southern Oscillation	GHCNDEX	Global Historical Climatology Network-Daily Gridded Data Set of Climate Extremes
EOF	Empirical Orthogonal Function	GHCNv3	Global Historical Climatology Network Version 3
ERA-40	ECMWF 40-year ReAnalysis	GHG	Greenhouse Gas
ERBE	Earth Radiation Budget Experiment	GI	Greenland Interstadial
ERBS	Earth Radiation Budget Satellite	GIA	Glacial Isostatic Adjustment
ERF	Effective Radiative Forcing	GIS	Greenland Ice Sheet
ERFaci	Effective Radiative Forcing due to Aerosol–Cloud Interactions	GISP	Greenland Ice Sheet Project
ERFari	Effective Radiative Forcing due to Aerosol–Radiation Interactions	GISS	Goddard Institute of Space Studies
ERS	European Remote Sensing (Satellite)	GISTEMP	Goddard Institute for Space Studies Surface Temperature Analysis
ERSST	Extended Reconstructed Sea Surface Temperature	GL	Grounding Line
ESA	European Space Agency	GLODAP	Global Ocean Data Analysis Project
ESM	Earth System Model	GLS	Generalized Least Squares
ESMR	Electrically Scanning Microwave Radiometer	GMA	Global Monsoon Area
ESRL	Earth System Research Library (NOAA)	GMD	Global Monitoring Division (NOAA)
ESTOC	European Station for Time Series in the Ocean	GMI	Global Monsoon Precipitation Intensity
ETC	Extratropical Cyclone	GMP	Global Monsoon Total Precipitation
FACE	Free-Air CO ₂ Enrichment	GMSL	Global Mean Sea Level
FAO	Food and Agriculture Organization (UN)	GMST	Global Mean Surface Temperature
FAR	IPCC First Assessment Report	GOCCP	GCM-Oriented CALIPSO Cloud Product
FGOALS1	Flexible Global Ocean Atmosphere Land System Model Version 1	GOGA	Global Ocean Global Atmosphere
FIO	First Institute of Oceanography	GOME	Global Ozone Monitoring Experiment
FLUXNET	Global Network of Flux Towers	GOMOS	Global Ozone Monitoring by Occultation of Stars
FTIR	Fourier Transform Infrared Spectroscopy	GOSAT	Greenhouse Gases Observing Satellite
FTS	Fourier-Transform Spectrometer	GPCC	Global Precipitation Climatology Centre
FWCC	Freshwater Content Changes	GPCP	Global Precipitation Climatology Project
GCAM	Global Change Assessment Model	GPH	Geopotential Height
GCM	General Circulation Model	GPP	Gross Primary Productivity
GCP	Global Cost Potential	GPS	Global Positioning System
GCRM	Global Cloud-Resolving Models	GRACE	Gravity Recovery and Climate Experiment
GEISA	Gestion et Etude des Informations Spectroscopiques Atmosphériques	GRISLI	Grenoble Ice Shelf and Land Ice Model
GENIE-1	Grid Enabled Integrated Earth System Model-1	GS	Greenland Stadial
GeoMIP G1	Geoengineering Model Intercomparison Project G1	GSFC	Goddard Space Flight Centre
GFDL	Geophysical Fluid Dynamics Laboratory	Gt	Gigatonnes
GFED	Global Fire Emissions Database	GTP	Global Temperature Change Potential
GHCN	Global Historical Climatology Network	GUESS	General Ecosystem Simulator
		GWD	Gravity-Wave Drag
		GWP	Global Warming Potential

HadAT2	Hadley Centre Atmospheric Temperature Data Set 2	IMBIE	Ice-sheet Mass Balance Intercomparison Experiment
HadCM	Hadley Centre Climate Prediction Models	IMPROVE	US Interagency Monitoring of Protected Visual Environments
HadCRUT4	Hadley Centre Climatic Research Unit Gridded Surface Temperature Data Set 4	INMCM4	Institute for Numerical Mathematics Coupled Model 4
HadEX	Hadley Centre Gridded Data Set Of Temperature And Precipitation Extremes	IOB	Indian Ocean Basin
HadGEM1	Hadley Centre New Global Environmental Model 1	IOBM	Indian Ocean Basin Mode
HadGEM2-ES	Hadley Centre New Global Environmental Model 2-Earth System	IOD	Indian Ocean Dipole
HadGHCND	Hadley Centre Gridded Daily Temperatures Data Set	IODM	Indian Ocean Dipole Mode
HadISST	Hadley Centre Interpolated SST	IPA	International Permafrost Association
HadNMAT2	Hadley Centre Night Marine Air Temperatures Data Set Version 2	IPO	Inter-decadal Pacific Oscillation
HadSLP2r	Hadley Centre Sea Level Pressure Data Set 2r	IPSL	Institut Pierre Simon Laplace
HadSST3	Hadley Centre Sea Surface Temperature Data Set Version 3	IPY	International Polar Year
HALOE	Halogen Occultation Experiment	IR	Infrared
HCFC	Hydrochlorofluorocarbon	IRF	Impulse Response Function
HCO₃⁻	Bicarbonate Ion	ISCCP	International Satellite Cloud Climatology Project
HF	Hickey–Frieden (Radiometer)	ITCZ	Inter-Tropical Convergence Zone
HFC	Hydrofluorocarbon	ITF	Indonesian Throughflow
HIPPO	HIAPER Pole-to-Pole Observations	IUK	Iterative Universal Kriging
HIRHAM5	High-Resolution Hamburg Climate Model 5	JIMAR	Joint Institute for Marine and Atmospheric Research
HITRAN	High-Resolution Transmission Molecular Absorption	JJA	June, July and August
HOAPS	Hamburg Ocean–Atmosphere Parameters and Fluxes from Satellite	JMA	Japan Meteorological Agency
HOT	Hawaii Ocean Time Series	JPL	Jet Propulsion Laboratory
HYDE	History Database of the Environment	ka	1000 Years ago
HY-INT	Hydroclimatic Intensity	KCM	Knowledge Capture and Modeling
HYLAND	Hybrid Land Terrestrial Ecosystem Model	kyr	1000 Years
IAM	Integrated Assessment Model	LAC	Light-Absorbing Carbon
IASI	Infrared Atmospheric Sounder Interferometer	LBIS	Larsen B Ice Shelf
ICE	Ice Cloud and Land Elevation	LBL	Line-by-line (models)
ICESat	Ice, Cloud and Land Elevation Satellite	LGM	Last Glacial Maximum
ICOADS	International Comprehensive Ocean-Atmosphere Data Set	LIA	Little Ice Age
IGAC	International Global Atmospheric Chemistry	LIG	Last Interglacial
IMAGE	Integrated Model to Assess the Global Environment	LISAM	Large-scale Index for South America Monsoon
		LLGHG	Long-Lived Greenhouse Gas
		LMM	Late Maunder Minimum
		LNADW	Lower North Atlantic Deep Water
		LOSU	Level of Scientific Understanding
		LOVECLIM	Loch–Vecode-Ecbilt-Clio-Agism Model

LPB	La Plata Basin	MLOST	Merged Land–Ocean Surface Temperature (Analysis)
LPJ	Lund-Potsdam-Jena Dynamic Global Model	MLS	Microwave Limb Sounder
LRF	Long-Range Forecast	MME	Multi-Model Ensemble
LS	Lower Stratosphere	MMF	Multiscale Modelling Framework
LSAT	Land-Surface Air Temperature	MMM	Multi-Model Mean
LSW	Labrador Sea Water	MMTS	Maximum–Minimum Temperature Systems
LUC	Land Use and Climate	MOC	Meridional Overturning Circulation
LUCID	Land Use and Climate, Identification of Robust Impacts	MOCAGE	Modèle de Chimie Atmosphérique à Grande Echelle
LULC	Land Use and Land Cover	MODIS	Moderate Resolution Imaging Spectrometer
LULCC	Land Use and Land Cover Change	MOHC	Met Office Hadley Centre
LWCRE	Longwave Cloud Radiative Effect	MOPITT	Measurements of Pollutants in the Troposphere
LWR	Longwave Radiation	MPI	Max Planck Institute
MAGICC	Model for the Assessment of Greenhouse Gas Induced Climate Change	MPIOM	Max Planck Institute Ocean Model
MAM	March, April and May	MPWP	Mid-Pliocene Warm Period
MAR	Modèle Atmosphérique Régional	MRI	Meteorological Research Institute of Japan Meteorological Agency
MARGO	Multiproxy Approach for the Reconstruction of the Glacial Ocean Surface	MSL	Mean Sea Level
MAT	Marine Air Temperatures	MSSS	Mean Square Skill Score
MBT	Mechanical Bathythermograph	MSU	Microwave Sounding Unit
MCA	Medieval Climate Anomaly	Mt	Megatonnes
MDA	Mineral Dust Aerosol	MT	Mid-Tropospheric
MDT	Mean Dynamic Topography	MTCO	Mean Temperature of the Coldest Month
MEA	Millennium Ecosystem Assessment	MTWA	Mean Temperature of the Warmest Month
MERRA	Modern Era Reanalysis for Research and Applications	MW	Microwave
MESSAGE	Model for Energy Supply Strategy Alternatives and their General Environmental Impact	MXD	Maximum Latewood Density
MFR	Maximum Feasible Reduction	Ma	Million Years ago
MHD	Mace Head	Myr	Million Years
MIP	Model Intercomparison Project	N₂O	Nitrous Oxide
MIPAS	Michelson Interferometer for Passive Atmospheric Sounding	NADW	North Atlantic Deep Water
MIROC	Model for Interdisciplinary Research on Climate	NAM	Northern Annular Mode
MISI	Marine Ice Sheet Instability	NAMP	National Air Quality Monitoring Programme (India)
MISR	Multi-angle Imaging Spectro-Radiometer	NAMS	North American Monsoon System
MIT	Massachusetts Institute of Technology	NAO	North Atlantic Oscillation
MJO	Madden–Julian Oscillation	NASA	National Aeronautics and Space Administration
MLD	Mixed Layer Depth	NCAR	National Center for Atmospheric Research
		NCEP	National Centers for Environmental Prediction
		NEC	North Equatorial Current

NEEM	North Greenland Eemian Ice Drilling	OLS	Ordinary Least Squares
NEWS	Global Nutrient Export from WaterSheds	OMI	Ozone Monitoring Instrument
NF₃	Nitrogen Trifluoride	ONDJFM	October, November, December, January, February and March
NGRIP	North Greenland Ice Core Project	ORC	Oceanic Reservoir Correction
NH	Northern Hemisphere	PAGES 2k	Past Global Changes 2k
NIWA	National Institute of Water and Atmospheric Research	PARASOL	Polarization and Anisotropy of Reflectances for Atmospheric Sciences Coupled with Observations from Lidar
NMAT	Nighttime Marine Air Temperature	PATMOS-x	Pathfinder Atmospheres Extended Data Set
NMVOC	Non-Methane Volatile Organic Compound	PBAPs	Primary Biological Aerosol Particles
NNR	NCEP–NCAR	PCM	Parallel Climate Model
NOAA	National Oceanic and Atmospheric Administration	pCO₂	Partial Pressure of Carbon Dioxide
NODC	National Oceanic Data Center	PDF	Probability Density Function
NorESM	Norwegian Earth System Model	PDO	Pacific Decadal Oscillation
NO_x	Reactive Nitrogen Oxides (the Sum of NO and NO ₂)	PDSI	Palmer Drought Severity Index
NPI	North Pacific Index	PETM	Paleocene–Eocene Thermal Maximum
NPIW	North Pacific Intermediate Water	PFC	Perfluorocarbon
NPP	Net Primary Productivity	PG	Peripheral Glacier
NSIDC	National Snow and Ice Data Center	Pg	Petagram
NT1	National Aeronautics and Space Administration (NASA) Team Algorithm, Version 1	PM₁₀	Particulate Matter with Aerodynamic Diameter <10 μm
NT2	National Aeronautics and Space Administration (NASA) Team Algorithm, Version 2	PM_{2.5}	Particulate Matter with Aerodynamic Diameter <2.5 μm
NTCF	Near-Term Climate Forcer	PMEL	Pacific Marine Environmental Laboratory
O('D)	Oxygen Radical in the 1D Excited State	PMIP3	Paleoclimate Modelling Intercomparison Project Phase III
O₃	Ozone	PMOD	Physikalisch-Meteorologisches Observatorium Davos
OA	Ocean–Atmosphere; also Other Anthropogenic (Forcings)	PNA	Pacific–North American (Pattern)
OAC	Ocean–Atmosphere–Carbon Cycle	POA	Primary Organic Aerosol
OAFlux	Objectively Analyzed Air–Sea Heat Fluxes	POC	Particulate Organic Carbon
OAGCMs	Ocean–Atmosphere General Circulation Models	POLDER	Polarization and Directionality of the Earth's Reflectance
OAV	Ocean–Atmosphere–Vegetation	PPE	Perturbed-Parameter Ensemble
OC	Organic Carbon	PRCE	Peak Response to Cumulative Emissions
OCN	Oceanic Carbon and Nutrient Cycling (Model)	PREMOS	Precision Monitor Sensor
ODP	Ocean Drilling Program	PSA	Pacific–South American (Pattern)
ODS	Ozone-Depleting Substance	PSMSL	Permanent Service for Mean Sea Level
OH	Hydroxyl Radical	PSS	Practical Salinity Scale
OHC	Ocean Heat Content	PSS78	Practical Salinity Scale 1978
OHR	Ocean Heating Rate		
OLR	Outgoing Longwave Radiation		

PUCCINI	Physical Understanding of Composition–Climate Interactions and Impacts	SBA	SSM/I Bootstrap Algorithm
QBO	Quasi-Biennial Oscillation	SBUV	Solar Backscatter Ultraviolet
R95p (R99p)	Amount of Precipitation from Days >95th (99th) Percentile	SC	Solar Cycle
RACMO2	Regional Atmospheric Climate Model 2	SCA	Snow-Covered Area
RAOBCORE	Radiosone Observation Correction using Reanalyses	SCD	Snow Cover Duration
RAPID/MOCHA	Rapid Climate Change–Meridional Overturning Circulation and Heatflux Array	SCE	Snow Cover Extent
RATPAC	Radiosonde Atmospheric Temperature Products for Assessing Climate	SCIA	Scanning Imaging Absorption Spectrometer for Atmospheric Chartography
RCM	Regional Climate Model	SCIAMACHY	Scanning Imaging Absorption Spectrometer for Atmospheric Chartography
RCP	Representative Concentration Pathway	SD	Snow Depth; also Statistical Downscaling
RE	Radiative Efficiency	SDGVM	Sheffield Dynamic Global Vegetation Model
REMBO	Regional, Moisture-Balance Orographic Model	SDII	Simple Daily Precipitation Intensity Index
REML	Restricted Maximum Likelihood	SeaWiFS	Sea-viewing Wide Field-of-view Sensor
RF	Radiative Forcing	SEM	Semi-Empirical Model
RFaci	Radiative Forcing from Aerosol–Cloud Interactions	SF₆	Sulphur Hexafluoride
RGI	Randolph Glacier Inventory	SH	Southern Hemisphere
RH	Relative Humidity	SICOPOLIS	Simulation Code for Polythermal Ice Sheets
RICH	Radiosonde Innovation Composite Homogenization	SIM	Spectral Irradiance Monitor
RMIB	Royal Meteorological Institute of Belgium	SIO	Scripps Institution of Oceanography
RMS	Root Mean Square	SLE	Sea Level Equivalent
RMSE	Root Mean Square Error	SLP	Sea Level Pressure
RO	Radio Occultation	SLR	Sea Level Rise
RSCA	Relative Snow-Covered Area	SMB	Surface Mass Balance
RSL	Relative Sea Level	SMMR	Scanning Multichannel Microwave Radiometer
RSS	Remote Sensing System	SMOS	Soil Moisture and Ocean Salinity
RX5day/RX1day	Annual Maximum 5-Day/1-Day Precipitation	SNO	Simultaneous Nadir Overpass
S/N	Signal-to-Noise (Ratio)	SO₂	Sulphur Dioxide
SACZ	South Atlantic Convergence Zone	SO₂F₂	Sulphuryl Fluoride
SAGE	Stratospheric Aerosol and Gas Experiment or Centre for Sustainability and the Global Environment	SO₄²⁻	Sulfate
SAM	Southern Annular Mode	SOA	Secondary Organic Aerosol
SAMS	South American Monsoon System	SOI	Southern Oscillation Index
SAMW	Sub-Antarctic Mode Water	SOLSTICE	Solar Stellar Irradiance Comparison Experiment
SAR	IPCC Second Assessment Report	SON	September, October and November
SAT	Surface Air Temperature	SORCE	Solar Radiation and Climate Experiment
		SPARC	Stratospheric Processes and their Role in Climate Chemistry Climate Model Validation
		SPCZ	South Pacific Convergence Zone

SPEI	Standardised Precipitation Evapotranspiration Index	TOPEX	Topography Experiment
SPI	Standardised Precipitation Index	TRANSCOM	Atmospheric Tracer Transport Model Intercomparison Project
SPRINTARS	Spectral Radiation-Transport Model for Aerosol Species	TRIFFID	Top-down Representation of Interactive Foliage and Flora Including Dynamics
SRALT	Satellite Radar Altimetry	TRUTHS	Traceable Radiometry Underpinning Terrestrial and Helio Studies
SRES	IPCC Special Report on Emission Scenarios	TRW	Tree-Ring Width
SREX	IPCC Special Report on Managing the Risk of Extreme Events and Disasters to Advance Climate Change Adaptation	TSI	Total Solar Irradiance
SRM	Solar Radiation Management	TTD	Transit Time Distribution
SSH	Sea Surface Height	TW	Tidewater
SSI	Spectral Solar Irradiance	UAH	University of Alabama in Huntsville
SSM/I	Special Sensor Microwave/Imager	UARS	Upper Atmosphere Research Satellite
SSR	Surface Solar Radiation	UCI	University of California, Irvine
SSS	Sea Surface Salinity	UHI	Urban Heat Island
SST	Sea Surface Temperature	UNADW	Upper North Atlantic Deep Water
SSU	Stratospheric Sounding Unit	UNEP	United Nations Environment Programme
STAR	Center for Satellite Applications and Research	UOHC	Upper (0–700 m) Ocean Heat Content
STMW	Subtropical Mode Water	USHCN	US Historical Climatology Network
SVS	Standard Verification System (WMO)	UTLS	Upper Troposphere/Lower Stratosphere
SWCRE	Shortwave Cloud Radiative Effect	UV	Ultraviolet
SWE	Snow Water Equivalent	UVic	University of Victoria
SWH	Significant Wave Height	VasClimO	Variability Analyses of Surface Climate Observations
SWR	Solar Shortwave Radiation	VEGAS	Terrestrial Vegetation and Carbon Model
TBO	Tropospheric Biennial Oscillation	VIIRS	Visible Infrared Imaging Radiometer Suite
Tg	Teragrams	VLM	Vertical Land Motion
T/P	TOPEX/Poseidon	VOC	Volatile Organic Compound
TANSO	Thermal and Near Infrared Sensor for Carbon Observation	VOS	Voluntary Observing Ship
TAR	IPCC Third Assessment Report	W	Watts
TC	Tropical Cyclone; also Total Carbon	WAIS	West Antarctic Ice Sheet
TCCON	Total Carbon Column Observing Network	WASWind	Wave- and Anemometer-Based Sea Surface Wind
TCR	Transient Climate Response	WCRP	World Climate Research Programme
TCRE	Transient Climate Response to Cumulative CO ₂ Emissions	WMGHG	Well-Mixed Greenhouse Gas
TES	Tropospheric Emission Spectrometer	WMO	World Meteorological Organization
TIM	Total Irradiance Monitor	WOCE	World Ocean Circulation Experiment
TNI	Trans-Niño Index	WSG	Western Subarctic Gyre
TOA	Top of the Atmosphere	XBT	Expendable Bathythermograph
TOMS	Total Ozone Mapping Spectrometer		

