

Acronyms

20CR	20th Century Reanalysis	CCRIF	Caribbean Catastrophe Risk Insurance Facility
AAL	average annual loss	CCS	carbon capture and storage
ABNJ	Areas Beyond National Jurisdiction	CCSM	Community Climate System Model
ACC	Antarctic Circumpolar Current	CDM	Clean Development Mechanism
ACCCA	Advancing Capacity for Climate Change Adaptation	CDR	carbon dioxide removal
ACRE	Atmospheric Circulation Reconstructions over the Earth	CEN-SAD	Community of Sahel-Saharan States
AF	Adaptation Fund	CER	certified emissions reduction
AFTA	ASEAN Free Trade Agreement	CFP	Ciguatera fish poisoning
AGCM	Atmosphere General Circulation Models	CFP	Common Fisheries Policy
AgMIP	Agricultural Model Intercomparison and Improvement Project	CFSR	Climate Forecast System Reanalysis
AGWA	Alliance for Global Water Adaptation	CGCM	Coupled General Circulation Model
AIM	Asia-Pacific Integrated Model	CGE	Computable General Equilibrium
AMMA	African Monsoon Multidisciplinary Analysis	CGIAR	Consultative Group on International Agricultural Research
AMO	Atlantic Multi-decadal Oscillation	CH₄	methane
AMOC	Atlantic Meridional Overturning Circulation	CIAV	climate impact, adaptation, and vulnerability
AMU	Arab Maghreb Union	CIL	Cold Intermediate Layer
AOC	Appellation d'Origine Controlee	CILSS	Permanent Inter-States Committee for Drought Control in the Sahel
AOGCMs	Atmosphere-Ocean General Circulation Model	CLARIS	Europe-South America Network for Climate Change Assessment and Impact Studies
AOSIS	Alliance Of Small Island States	Climate-ADAPT	Climate Adaptation Platform
APHRODITE	Asian Precipitation – Highly Resolved Observational Data Integration Towards Evaluation	CLIVAR	Climate Variability and Predictability Programme
AR4	Fourth Assessment Report	CLLJ	Caribbean Low Level Jet
AR5	Fifth Assessment Report	CLRTAP	Convention on Long-range Transboundary Air Pollution
ARPEGE	Action de Recherche Petite Echelle Grande Echelle	CMIP3	Coupled Model Intercomparison Project Phase 3
ASEAN	Association of Southeast Asian Nations	CMIP5	Coupled Model Intercomparison Project Phase 5
ASH	Aragonite Saturation Horizon	CNRM	Centre National de Recherches Météorologiques
ASP	adaptive social protection	CO₂	carbon dioxide
AVHRR	Advanced Very High Resolution Radiometer	COADS	Comprehensive Ocean-Atmosphere Data Set
BATS	Bermuda Atlantic Time-series Study	COMESA	Common Market for Eastern and Southern Africa
BAU	business as usual	COMIFAC	Commission of Central African Forests
BFI	Bilateral Finance Institutions	CORDEX	Coordinated Regional Downscaling Experiment
C⁴MIP	Carbon Cycle Model Intercomparison Project	CPIA	Country Policy and Institutional Assessment
CAADP	Comprehensive Africa Agriculture Development Program	CPP	Cyclone Preparedness Program
CaCO₃	calcium carbonate	CRED	Centre for Research on the Epidemiology of Disasters
CAF	Cancun Adaptation Framework	CRISTAL	Community-based Risk Screening Tool-Adaptation and Livelihoods
CAP	Common Agricultural Policy	CRUTEM4	Climatic Research Unit/Hadley Centre gridded land-surface air temperature version 4
CAPS	climate-altering pollutants	CSIRO	Commonwealth Scientific and Industrial Research Organisation
CARLA	Climate Adaptation for Rural Livelihoods and Agriculture	CSP	concentrating solar power
CBA	community-based adaptation	CTI	Coral Triangle Initiative
CBAA	Community-Based Adaptation in Africa	CTM	Chemical Transport Model
CBD	Convention on Biological Diversity	CTP	carbon from thawed permafrost
CBDRR	community-based disaster risk reduction	DAI	dangerous anthropogenic interference
CBNRM	community-based natural resource management	DALYs	disability-adjusted life years
CBS	Coastal Boundary Systems	Defra	Department for Environment Food and Rural Affairs
CC	community composition	DGVM	Dynamic Global Vegetation Model
CCA	climate change adaptation	DHMs	degree heating months
CCAD	Central American Commission for Environment and Development	DIN	dissolved inorganic nitrogen
CCAFS	Climate Change Agriculture and Food Security	DIP	dissolved inorganic phosphorus
CCAMLR	Commission for the Conservation of Antarctic Marine Living Resources	DIVA	Dynamic Interactive Vulnerability Assessment
CCM	carbon-concentrating mechanism	DJF	December-January-February
CCRA	Climate Change Risk Assessment	DMS	dimethylsulfide

DNCs	dark needle conifers	GCMs	Global Climate Models
DO	Dansgaard-Oeschger	GDI s	gross domestic investments
DOC	Denominazione di Origine Controllata	GDP	gross domestic product
DOCG	Denominazione di Origine Controllata e Garantita	GEF	Global Environmental Facility
DOM	dissolved organic matter	GENIE	Grid Enabled Integrated Earth System Model
DRM	disaster risk management	GFDL-CM2	Geophysical Fluid Dynamics Laboratory Coupled Model version 2
DRR	disaster risk reduction	GHG	greenhouse gas
DS	Deep Sea	GHM	Global Hydrological Model
E&V	exposure and vulnerability	GIS	Geographic Information System
EAC	East African Community	GISS	Goddard Institute of Space Studies
EAC	East Australian Current	GISTEMP	Goddard Institute for Space Studies Surface Temperature Analysis
EAM	East Asian Monsoon	GLADA	Global Land Degradation Assessment and Improvement
EbA	Ecosystem-based Adaptation	GLISA	Great Lakes Integrated Sciences and Assessments
EBUE	Eastern Boundary Upwelling Ecosystems	GLOF	glacier lake outburst flood
ECCAS	Economic Community of Central African States	GMOs	genetically modified organisms
ECHAM4	European Centre for Medium Range Weather Forecasts and Hamburg 4	GMSL	global mean sea level
ECLAC	Economic Commission for Latin America and the Caribbean	GMSLR	global mean sea level rise
ECO	European Climate Change Oscillation	GMST	global mean surface temperature
ECOWAS	Economic Community of West African States	GMT	global mean temperature
ECP	Extended Concentration Pathway	GNP	Gross National Product
EEZs	exclusive economic zones	gNPP	global NPP
EIs	economic instruments	GPCC	Global Precipitation Climatology Centre
ENM	Ecological Niche Model	GPP	Gross Primary Productivity
ENSO	El Niño-Southern Oscillation	GS	governance structures
ERA	European Centre for Medium Range Weather Forecasts Reanalyses	HABs	harmful algal blooms
ERSST	Extended Reconstructed SST	HadCM3	Hadley Centre climate prediction model 3
ESCI	Emerging and Sustainable Cities Initiative	HadCRUT4	Hadley Centre/climatic research unit gridded surface temperature data set 4
ESCOs	Energy Service Companies	HadCRUT4.2	Hadley Centre/climatic research unit gridded surface temperature data set 4.2
ESM	Earth System Model	HadGEM2-ES	Hadley Centre new Global Environmental Model version 2 Earth System
ESPACE	European Spatial Planning Adapting to Climate Events Project	HadRM3	Hadley Centre Regional Model 3
ETCCDI	Expert Team on Climate Change Detection and Indices	HARITA	Horn of Africa Risk Transfer for Adaptation
ETCs	extratropical cyclones	HDI	Human Development Index
EU	European Union	HE	hypoxia effect
EUS	Equatorial Upwelling System	HIC	high-income country
EWS	early warning systems	HIRHAM	High-Resolution HAMBURG climate Model
EWS	Eelpout in the Wadden Sea	HLSBS	High-Latitude Spring Bloom Systems
FACE	Free Air CO ₂ Enrichment	HNLC	high-nutrient low-chlorophyll
FACE	free atmosphere carbon exchange	HOT	Hawaii Ocean Time series
FADs	fish-aggregating devices	HY-INT	hydroclimatic intensity
FAO	Food and Agriculture Organization	I&FF	investment and financial flows
FAR	First Assessment Report	IAM	Integrated Assessment Model
FCP	Fisheries Catch Potential	IAS	invasive alien species
FDIs	foreign direct investments	IAV	impacts, adaptation, and vulnerability
FEWS NET	Famine Early Warning Systems Network	ICLEI	International Council for Local Environmental Initiatives
FFDI	Forest Fire Danger Index	ICOADS	International Comprehensive Ocean-Atmosphere Data Set
FONDEN	Fondo de Desastres Naturales	ICPAC	International Climate Prediction and Applications Centre
FUND	Framework for Uncertainty, Negotiation and Distribution	ICTs	information and communication technologies
GAIN	Global Adaptation Alliance	ICZM	Integrated Coastal Zone Management
GANs	Global Action Networks		
GCAM	Global Change Assessment Model		
GCM	General Circulation Model		

IDB	Inter-American Development Bank	MEA	Millennium Ecosystem Assessment
IEA	International Energy Agency	MERCOSUR	Mercado Común del Sur
IGAD	Intergovernmental Authority on Development	MERRA	Modern Era Reanalysis for Research and Applications
IHO	International Hydrographic Organization	MESSAGE	Model for Energy Supply Strategy Alternatives and their General Environmental Impact
IJEPA	Indonesia-Japan Economic Partnership Agreement	MFIs	Multilateral Financial Institutions
ILO	International Labor Organization	MICs	medium-income country
iLUC	indirect land use change	MIROC	Model for Interdisciplinary Research On Climate
IMAGE	Integrated Model to Assess the Global Environment	MLD	mixed layer depth
IMF	International Monetary Fund	MLOST	Merged Land-Ocean Surface Temperature
IMO	International Maritime Organization	MME	Multi-Model Ensemble
IOD	Indian Ocean Dipole	MMM	Maximum Monthly Mean
IOM	International Organization of Migration	MOC	Meridional Overturning Circulation
IPO	Inter-decadal Pacific Oscillation	MODIS	Moderate Resolution Imaging Spectrometer
IPY	International Polar Year	MOSE	MODulo Sperimentale Elettromeccanico
ISFS	Invasive Species Forecasting System	MPAs	marine protected areas
ISI-MIP	Inter-Sectoral Impact Model Intercomparison Project	MPI	Max Planck Institute
ISPS	International Ship and Port Facility Security	MRC	Mekong River Commission
ITCZ	Intertropical Convergence Zone	MRI-AGCMS	Meteorological Research Institute of Japan Meteorological Agency
ITF	Indonesian Throughflow	MRSP	Metropolitan Region of São Paulo
IUCN	International Union for Conservation of Nature	MSL	mean sea level
IUPA	Index of Usefulness of Practices for Adaptation	MWF	mid-water fishes
IUU	illegal, unreported, and unregulated	NAFTA	North American Free Trade Agreement
IWRM	Integrated Water Resource Management	NAMS	North American Monsoon System
JGOFS	Joint Global Ocean Flux Study	NAO	North Atlantic Oscillation
JI	Joint Implementation	NAP	National Adaptation Plan
JJA	June-July-August	NAPA	National Adaptation Programme of Action
JMA	Japan Meteorological Agency	NARCCAP	North American Regional Climate Change Assessment Program
KOE	Kuroshio-Oyashio Extension	NARR	North American Regional Reanalysis
KVs	Key Vulnerabilities	NCAR	National Center for Atmospheric Research
LAPA	Local Adaptation Plans of Action	NCCARF	National Climate Change Adaptation Research Facility
LDCF	Least Developed Countries Fund	NCCRS	National Climate Change Response Strategies
LDCs	Least Developed Countries	NCDC	National Climate Data Center
LECZ	low-elevation coastal zone	NCEP	National Centers for Environmental Prediction
LGM	Last Glacial Maximum	NDVI	Normalized Difference Vegetation Index
LIC	low-income country	NEB	northeast Brazil
LiDAR	Light Detection And Ranging	NEPAD	New Partnership for Africa's Development
LMB	Lower Mekong River Basin	NGO	non-governmental organization
LMICs	lower middle-income countries	NH	Northern Hemisphere
LP	London Protocol	NIES	National Institute for Environmental Studies
LPB	La Plata Basin	NNR	NCEP-NCAR Reanalyses
LSLA	large-scale land acquisitions	NOAA	National Oceanic and Atmospheric Administration
LUCC	land use and cover change	NPGO	North Pacific Gyre Oscillation
M&A	mitigation and adaptation	NPP	Net Primary Productivity
MAB	Marine Air Breathers	NRM	Natural Resource Management
MAGICC	Model for the Assessment of Greenhouse gas Induced Climate Change	NSR	Northern Sea Route
MAM	March-April-May	NWP	Northwest Passage
MAP	mean annual precipitation	O_{2crit}	critical O ₂ concentration
MARPOL	International Convention for the Prevention of Pollution From Ships	O₃	ozone
MBIs	market-based instruments	OA	ocean acidification
MCA	multi-criteria analysis	OAE	ocean acidification effect
MCDA	multi-criteria decision analysis	OC	organic carbon
MDB	Marine Data Bank	OCLTT	Oxygen and Capacity Limited Thermal Tolerance
MDB	Multilateral Development Bank	ODA	Official Development Assistance
MDBA	Murray-Darling Basin Authority		
MDGs	Millennium Development Goals		

OECD	Organisation for Economic Co-operation and Development	SCC	social cost of carbon
OMZ	Oxygen Minimum Zone	SCS	South China Sea
OND	October-November-December	SDGs	Sustainable Development Goals
OPEC	Organization of the Petroleum Exporting Countries	SDM	species distribution modeling
PACC	Pacific Adaptation to Climate Change Project	SE	synergistic effects
pCO₂	CO ₂ partial pressures	SeaWiFS	Sea-viewing Wide Field-of-view Sensor
PDF	Probability Density Function	SED	socioeconomic development
PDO	Pacific Decadal Oscillation	SEI	Stockholm Environment Institute
PDSI	Palmer Drought Severity Index	SES	Semi-Enclosed Seas
PEMSEA	Partnerships in Environmental Management for the Seas of East Asia	SICA	Sistema de la Integración Centroamericana
PES	Payment for Environmental Services	SIDS	Small Island Developing States
PESETA	Projections of Economic impacts of climate change in Sectors of Europe based on bottom-up analysis	SLP	sea level pressure
PETM	Paleocene-Eocene Thermal Maximum	SLR	sea level rise
PFEL	Pacific Fisheries Environmental Laboratory,	SMEs	small to medium enterprises
PIACC	Ibero-American Programme on Adaptation to Climate Change	SO₂	sulfur dioxide
PM_{2.5}	particulate matter with aerodynamic diameter <2.5 µm	SP	social protection
PM₅	particulate matter with aerodynamic diameter <5 µm	SPAs	Shared Policy Assumptions
PNA	Pacific North America	SPCRs	Strategic Programmes for Climate Resilience
POM	particulate organic matter	SPCZ	South Pacific Convergence Zone
POPs	persistent organic pollutants	SPM	Summary for Policymakers
PP	Plankton Phenology	SPREP	South Pacific Regional Environmental Programme
PPCR	Pilot Program for Climate Resilience	SR	Species Richness
PRECIS	Providing REgional Climates for Impact Studies	SRC	short rotation coppice
PROVIA	Programme of Research on Climate Change Vulnerability, Impacts and Adaptation	SRES	Special Report on Emission Scenarios
PSS78	Practical Salinity Scale 1978	SREX	Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation
PV	photovoltaic	SRM	Solar Radiation Management
PVA	participatory vulnerability assessment	SRREN	Special Report on Renewable Energy Sources and Climate Change Mitigation
PWC	Pacific Walker Circulation	SSFs	small-scale fisheries
RAC	Regional Adaptation Collaborative	SSP	Shared Socioeconomic Pathway
RCA 3	Rosby Centre regional Atmospheric model 3	SST	sea surface temperature
RCM	Regional Climate Model	STF	subtropical front
RCP	Representative Concentration Pathway	STG	subtropical gyre
RDM	robust decision making	SWH	significant wave height
RECs	Regional Economic Communities	TAR	Third Assessment Report
REDD+	Reduction of Emissions from Deforestation and Forest Degradation	TBE	tick-borne encephalitis
RFC	Reasons for Concern	TC	tropical cyclone
RFMO	Regional Fisheries Management Organization	TE	temperature effect
RICE	Regional dynamic Integrated model of Climate and the Economy	TEK	traditional ecological knowledge
RISAs	Regional Integrated Sciences and Assessments	TEP	transparent exopolymer particle
ROI	return on investment	TH	thermal heating
RSLR	relative sea level rise	THC	thermohaline circulation
RWCs	reef-building warm-water corals	THI	Temperature-Humidity Index
SADC	Southern African Development Community	TRMM	Tropical Rainfall Measuring Mission
SAM	Southern Annular Mode	UCL	urban canopy layer
SAMS	South American Monsoon System	UHI	urban heat island
SAR	synthetic aperture radar	UKCIP	UK Climate Impacts Program
SAR	Second Assessment Report	UMIC	upper middle income country
SAS	Southeast Asian Seas	UNCLOS	United Nations Convention on the Law of the Sea
		UNDP	United Nations Development Programme
		UNFCCC	United Nations Framework Convention on Climate Change
		UNHCR	United Nations High Commissioner for Refugees
		UNSFSA	United Nations Straddling Fish Stocks Agreement
		UV	ultraviolet

VCO	voluntary carbon offset	WHO	World Health Organization
VOCs	volatile organic compounds	WIPO	World Intellectual Property Organization
WAP	western Antarctic Peninsula	WMO	World Meteorological Organization
WASWind	Wave- and Anemometer-based Sea Surface Wind	WOCE	World Ocean Circulation Experiment
WaterMIP	Water Model Intercomparison Project	WTO	World Trade Organization
WB	World Bank	WUCA	Water Utilities Climate Alliance
WCRP	World Climate Research Programme	WUE	water use efficiency