

## **Annex II: Acronyms**

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Annex II Acronyms

3-NOP	3-Nitrooxypropanol	CAFO	Concentrated Animal Feeding Operations
A/F	Afforestation/Reforestation	CAMPA	Compensatory Afforestation Management and
ABC	Low Carbon Agriculture Plan		Planning Authority
ABM	Agent-Based Model	CATDDO	Catastrophe Risk Deferred Drawdown Option
ADB	Asian Development Bank	CBA	Community-based Adaptation/Cost Benefit Analysis
AerChemMIP	Aerosol Chemistry Model Intercomparison Project	CBD	United Nations Convention on Biodiversity
AFOLU	Agriculture, Forestry and Other Land Use	CC	Carbon Capture
AgMIP	Agricultural Model Intercomparison and	CCS	Carbon dioxide Capture and Storage
	Improvement Project	CCA	Climate Change Adaptation
AGRA	Alliance for a Green Revolution in Africa	CCAFS	CGIAR Research Program on Climate Change, Agriculture and Food Security
Al	Aridity Index	CCN	Cloud Condensation Nuclei
AMO	Atlantic Multi-decadal Oscillation	CCRIF	Caribbean Catastrophe Risk Insurance Facility
AR	Afforestation and Reforestation	CCS	Carbon Capture and Storage
AR5	Fifth Assessment Report	CCU	Carbon Capture and Usage
ARC	Africa Risk Capacity	CDM	Clean Development Mechanism
ARM	Adaptive Risk Management	CDP	Carbon Disclosure Project
ASF	Animal Sourced Foods	CDR	Carbon Dioxide Removal
AVHRR	Advanced High Resolution Radiometer	CEA	Cost Effectiveness Analysis
AWD	Alternate Wetting and Drying	CEC	·
BAPEN	British Association for Parenteral and Enteral Nutrition	ÇEMGM	Commission of the European Communities  Conservation Reserve Program
BAU	Business as Usual	ÇEWIGINI CEN-SAD	· ·
BC	Riochar		The Community of Sahel-Saharan States
	210 01101	CFS	Committee on World Food Security
BC BCR	Black Carbon  Benefit Cost Ratio	CGIAR-	Consultative Group on International Agricultural Research
BE	Bioenergy	CGRA	Coordinated Global and Regional Assessment
BECCS	Bioenergy with Carbon Capture and Storage	CH₄	Methane
BEFM	Bio-Economic Farm Model	СНР	Combined Heat and Power
BEST	Berkeley Earth Surface Temperature	CHIRPS	Climate Hazards Group Infrared Precipitation with Station
ВРЕ	Biomass Production Efficiency	СНМІ	Czech Hydrometeorological Institute
BrC	Brown Carbon	CHP	Combined Heat and Power
BTV	Blue-Tongue Virus	CI	Confidence Interval
BUR	Biannual Update Report	CIAT	
BVOC	Biogenic Volatile Organic Compounds	CIPHET	International Centre for Tropical Agriculture
С	Carbon	CIPHEI	Central Institute of Post-Harvest Engineering and Technology
CA	Conservation Agriculture	CIREN	Centro de Información de Recursos Naturales
CABI	Centre for Agriculture and Bioscience	СМ	Cultured Meat
CACULT	International	CMIE	Centre of Monitoring the Indian Economy
CACILM	Central Asian Countries Initiative for Land Management	CMIP5	Coupled Model Intercomparison Project Phase 5

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CMIDS	Counted Model Intercomparison	ENSO	El Niño/Southern Oscillation
CMIP6	Coupled Model Intercomparison Project Phase 6	EPA	UN Environmental Protection Agency
CO	Carbon monoxide	ES	Ecosystem Service
CO <sub>2</sub>	Carbon dioxide	ESM	Earth System Models
CO <sub>2</sub> e	Carbon dioxide equivalent	ESL	Extreme Sea Level
CO₂eq	Carbon dioxide equivalent	ETS	Emissions Trading Scheme
СОР	Conference of the Parties	EU	European Union
CRCM	Canadian Regional Climate Model	EU-RED	European Union Renewable Energy Directive
CRISPR	Clustered Regularly Interspaced Short	EVI	Enhanced Vegetation Index
CDD	Palindromic Repeats	EW/EA	Early Warning and Early Action
CRP	Conservation Reserve Program	EWS	Early Warning Systems
CRU	Climatic Research Unit of the University of East Anglia	FACE	Free-Air Carbon dioxide Enrichment
CRUTEM	Dataset of the Climatic Research Unit of the University of East Anglia	FAO	United Nations Food and Agricultural Organisation
CRV	Climate Resilient Villages	FAO-FRA	FAO Global Forest Resources Assessment
CSA	Climate Smart Agriculture	FAOSTAT	FAO Database
CSO	Civil Society Organisation	FAQ	Frequently Asked Questions
CSV	Climate Smart Village	Fe	Iron
DALY	Disability-Adjusted Life-Year	FF	Fossil Fuel
DERM	Department of Environment and Resource Management, India	FIES	Food Insecurity Experience Scale
		fNRB	fraction of Non-Renewable Biomass
DESIRE	Desertification Mitigation and Remediation of Land	FRA	Forest Rights Act (India)
DGVM	Dynamic Global Vegetation Model	FSC	Forest Stewardship Council
DJF	December-January-February	FWL	Food Waste and Loss
DMP	Dust Mass Path	GATT	General Agreement on Tariffs and Trade
DRM	Disaster Risk Management	GBEP	Global Bioenergy Partnership
DOD	Dust Optical Depth	GCF	Green Climate Fund
DRR	Disaster Risk Reduction	GCM	Global Climate Model or General Circulation Model
EBA	Ecosystem Based Adaptation	GCP	Global Carbon Project
EC	Elemental Carbon or European Commission	GDEWS	Global Drought Early Warning System
ECA	European Court of Auditors	GDP	Gross Domestic Product
EDGAR	Emissions Database for Global Atmospheric Research	GE	Government Effectiveness or General Equilibrium
EEA	European Environment Agency	GEF	Global Environmental Facility
EF	Emission Factor	GFCS	Global Framework for Climate Services
EFSA	European Food Safety Authority	GFED	Global Fire Emissions Database
EFT	Ecological Fiscal Transfer	GFGP	Conversion of Cropland to Forests and
ELD	Economics of Land Degradation or Economics of Land Degradation Initiative		Grasslands Program (Grain for Green Programme)
EM-DAT	International Disaster Database	GGCM	Global Gridded Crop Models

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Gha	Gigahectares	IAM	Integrated Assessment Model
GHCN	Global Historical Climatology Network	ICARDA	International Center for Agriculture Research
GHG	Greenhouse Gas		in the Dry Areas
GHGE	Greenhouse Gas Emissions	ICCC	International Conference on Climate Change
GHGI	Greenhouse Gas Inventory	ICOS	Integrated Carbon Observation System
GIAHS	Globally Important Agricultural Heritage Site	ICPAC	IGAD Climate Prediction and Applications Centre
GIEWS	FAO Global Information and Early Warning System	ICSU	International Council for Science
GIMMS3g	Global Inventory Modelling and Mapping Studies	ICT	Information and Communication Technology
		ICTP	International Centre for Theoretical Physics
GISTEMP	Goddard's Global Surface Temperature	IEA	International Energy Agency
GIZ	Analysis  German Society for International Cooperation	IFAD	International Fund for Agricultural Development
GJ	Gigajoules	IFPRI	International Food Policy Research Institute
GLASOD	Global Assessment of Human-Induced Soil	IGAD	Intergovernmental Authority on Development
	Degradation	IHME	Institute for Health Metrics and Evaluation
GLASS	Global Land Atmosphere System Study	IK	Indigenous Knowledge
GLOBIOM	GLObal BIOsphere Management model	ILK	Indigenous and Local Knowledge
GLOF	Glacial Lake Outburst Floods	iLUC	indirect Land Use Change
GLOMAP	Global Model of Aerosol Processes	IMAGE	Integrated Model to Assess Global
GM	Genetically Modified		Environment
GMO	Genetically Modified Organism	INDC	Intended Nationally Determined Contribution
GMSL	Global Mean Sea Level	INPE	Instituto Nacional de Pesquisas Espaciais
GMST	Global Mean Surface Temperature	100	(National Institute for Space Research)
GMT	Global Mean Temperature	IDDEC	Indian Ocean Dipole
GNR	Global Nutrition Report	IPBES	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
GPP	Gross Primary Productivity/Gross Primary Production	IPCC	Intergovernmental Panel on Climate Change
GWP	Global Warming Potential	IPO	Inter-decadal Pacific Oscillation
На	Hectares	IQR	Interquartile Range
H <sub>2</sub>	Hydrogen	IRD	Integrated Rural Development
HadCM3	Hadley Centre Coupled Model, version 3	ISEAL	ISEAL Alliance (International Social and
HANPP	Human Appropriation of Net Primary Production	Alliance)	
НАРРІ	Half a degree Additional warming, Projections, Prognosis and Impacts	ISO	International Organization for Standardization
11/11/11		ITPS	Intergovernmental Technical Panel on Soils
HDI	Human Development Index	ITRDB	International Tree Ring Data Bank
HEI	Healthcare Environment Inspectorate	IUCN	International Union for Conservation of Nature
ННР	High Hydrostatic Pressure	IWAI	Inland Waterways Authority of India
НКН	Hindu-Kush Himalayan	IWM	Integrated Watershed Management
HLPE	High Level Panel of Experts	JJA	June-July-August
HYDE	History Database of the Global Environment	-	

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K	Potassium	MERIS	Medium Resolution Imaging Spectrometer
km	Kilometres	MESSAGE	Model for Energy Supply Systems And their
kt	Kilotonnes		General Environmental impact
kWh	Kilowatt hours	MFS	Microfinance Services
L	Litres	Mha	Megahectare
LADA	Land Degradation Assessment in Drylands	MIRWH	Mechanized Micro Rainwater Harvesting
LAI	Leaf Area Index	MJ	Megajoules
LAPA	Local Adaptation Plan of Action	MND	Micro Nutrient Deficiency
LCA	Lifecycle Analysis/Life-Cycle Assessment	MODIS	Moderate Resolution Imaging Spectroradiometer
LCC	Land-Cover Conversions	MOFPI	Ministry of Food Processing Industries
LCCS	Land Cover Classification System	MRV	Monitoring, Reporting and Verification
LDC	Least Developed Countries	MSA	Mean Species Abundance
LDN	Land Degradation Neutrality	Mt	Megatonnes
LED	Low Energy Demand	MTOE	Million Tonnes of Oil Equivalent
LGP	Length of Growing Period	N	Nitrogen
LiDAR	Light Detection and Ranging	N <sub>2</sub> O	Nitrous Oxide
LIMCOM	Limpopo Watercourse Commission	NAMA	Nationally Appropriate Mitigation Action
LK	Local Knowledge	NAP	National Adaptation Plan
LM	Land Management	NAPA	National Adaptation Program of Action
LMIC	Low- and Middle-Income Country	NARC	Nepal Agricultural Research Council
LPG	Liquified Petroleum Gas	NASA/GISS	US National Aeronautics and Space
LSAT	Land Surface Air Temperature		Administration
LSLA	Large-Scale Land Acquisition	NBS	Nature Based Solutions
LTKA	Local and Traditional Knowledge	NCE	New Climate Economy
	in Agriculture	NCD	Non-Communicable Diseases
LUC	Land Use Change	NCP	Nature's Contributions to People
LUH2	Harmonised Land Use Change Data	NDC	Nationally Determined Contribution
LULCC	Land Use Land Cover Change	NDVI	Normalised Difference Vegetation Index
LULUCF	Land Use, Land Use Change and Forestry	NENA	Near East and North Africa
MA	Millennium Ecosystem Assessment	NEON	National Science Foundation's National
MAC	Marginal Abatement Cost		Ecological Observatory Network
MACC	Marginal Abatement Cost Curve	NEP	National Energy Programme
MAgPIE	Model of Agricultural Production and its Impact on the Environment	NET	Negative Emission Technology
MAM	March-April-May	NFPP	National Forest Protection Program
MAR	Managed Aquifer Recharge	NGO	Non-Governmental Organisation
MCF	Methyl Chloroform	NH <sub>3</sub>	Ammonia
MCS	Mesoscale Convective Systems	NIAB	National Institute of Agricultural Botany
MEA	Millennium Ecosystem Assessment	NOAA	US National Oceanic and Atmospheric Administration
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Middle Eastern Dust Storms

MED

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NOAA AVHRR	US National Oceanic and Atmospheric Administration Advanced Very High Resolution Radiometer	PPCDAm	Interministerial Plan of Action for Prevention and Control of Deforestation of the Legal Amazon
NOAA ESRL	US National Oceanic and Atmospheric	PPI	Plant Phenology Index
	Administration Earth System Research Laboratory	PRIMAP	Potsdam Real-time Integrated Model for the probabilistic Assessment of emission Paths
NPP	Net Primary Production/Net Primary Productivity	RAP	Representative Agricultural Pathways
NPV	Net Present Value	RCM	Regional Climate Models
NRC	National Research Council	RCP	Representative Concentration Pathway
NRDC	Natural Resources Defence Council	REDD	Reducing Emissions from Deforestation and
NTFP	Non-Timber Forest Product		Degradation
NUS	Neglected and Underutilised Species	REDD+	Reducing Emissions from Deforestation and Degradation and the role of conservation,
0,	Oxygen		sustainable management of forests and
<b>O</b> <sub>3</sub>	Ozone		enhancement of forest carbon stocks in developing countries
oc	Organic Carbon	RegCM	Regional Climate Model
OECD	Organisation for Economic Co-operation and Development	REMIND	REgional Model of INvestments and Development
ОН	Hydroxyl Radical	REN21	Renewable Energy Policy Network for
ORCHIDEE	Organising Carbon and Hydrology In Dynamic		the 21st Century
	Ecosystems	RF	Radiative Forcing
OSS	Sahara and Sahel Observatory	RESTREND	Residual Trends
P	Precipitation or Phosphorus	RIL	Reduced Impact Logging
PAF	Pilot Auction Facility	ROSCA	Rotating Saving and Credit Association
PAGGW	Pan-African Agency of the Great Green Wall	RPDS	Research Program on Dryland Systems
PAH	Polycyclic Aromatic Hydrocarbon	RUE	Rain Use Efficiency
PAYT	Pay As You Throw	RUSLE	Revised Universal Soil Loss Equation
PBAP	Primary Biological Aerosol Particles	RVI	Reconstructed Vegetation Index
PCP	Precipitation	RWH	Rainwater Harvesting
PCRAFI	Pacific Catastrophe Risk Assessment and Financing Initiative	RX1day	Annual Maximum 1-day Precipitation
PEFC	Programme for the Endorsement of Forest	SAH	Sahara
LIC	Certification	SAS	South Asia
PES	Payment for Environmental Services/Payment	SAT	Surface Air Temperature
	for Ecosystem Services	SCC	Social Cost of Carbon
PET	Potential Evapotranspiration	SD	Standard Deviation or Sustainable Development
PHL	Post Harvest Losses	SDG	Sustainable Development Goal
PICS	Purdue Improved Crop Storage	SDS-WAS	Sand and Dust Storm Warning Advisory and
PM	Particulate Matter		Assessment System
PM2.5	Particulate matter with size less than 2.5 μm	SERFOR	National Forest Service and Wildlife Authority
PoU	Prevalence of Undernourishment	SES	Socio-Ecological Systems
PPA	Power Purchase Agreements	SFM	Sustainable Forest Management

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SFSC	Shortening Food Supply Chain	TSS	Time Series Segmentation
SI	Sustainable Intensification	UGI	Urban Green Infrastructure
SIB	State Investment Bank	UHI	Urban Heat Island
SICAR	National Land Registry System	UNCBD	United Nations Convention on Biodiversity
SIDS	Small Island Developing States	UNCCD	United Nations Convention to Combat Desertification
SLCF	Short-Lived Climate Forcer	HNCED	United Nations Conference on Environment
SLCP	Short Lived Climate Pollutant	UNCED	and Development
SLM	Sustainable Land Management	UNCTAD	United Nations Conference on Trade and
SM	Supplementary Materials		Development
SO <sub>2</sub>	Sulfur dioxide	UNDP	United Nations Development Programme
SOA	Secondary Organic Aerosols	UN-EMG	UN Environment Management Group
SOC	Soil Organic Carbon	UNEP	United Nations Environment Programme
SOFI	The State of Food Security and Nutrition	UNEP-GEF	UN Environment Global Environment Facility
SOM	in the World Soil Organic Matter	UNFCCC	United Nations Framework Convention on Climate Change
SON	September-October-November	UNICEF	United Nations Children's Fund
SPOT VGT	Satellite Pour l'Observation de la Terre Vegetation (Satellite for the Observation	UNISDR	UN Sendai Framework for Disaster Risk Reduction
SR15	of the Earth Vegetation)  IPCC Special Report on Global Warming of 1.5°C	UN-REDD	United Nations Collaborative Programme on Reducing Emissions fom Deforestation and Forest Degradation in Developing Countries
SRCCL	IPCC Special Report on Climate Change	UPAF	Urban and Peri-urban Agriculture and Forestry
	and Land	USAID	United States Agency for International
SRES	IPCC Special Report on Emission Scenarios	VJAID	Development
SREX	IPCC Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation	USD	United States Dollars
		USDA	United States Department of Agriculture
SR-LULUCF	IPCC Special Report on Land Use, Land-Use Change and Forestry	USEPA	United States Environmental Protection Agency
SROCC	IPCC Special Report on the Ocean Cryosphere and Climate Change	UTFI	Underground Taming of Floods for Irrigation
Shoce		UV	Ultraviolet
SSP	Shared Socio-economic Pathways	VGGT	Voluntary Guidelines on the Responsible
SSSA	Soil Science Society of America		Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security
SST	Sea Surface Temperature		
SWAT	Soil and Water Assessment Tool	VOC	Volatile Organic Compound
SWC	Soil and Water Conservation	VOD	Vegetation Optical Depth
SYR	IPCC Synthesis Report	w/	With
t	Tonnes	w/o	Without
TCR	Transient Climate Response	W	Watts
TEEB	The Economics of Ecosystems and Biodiversity	WAF	West Africa
Tg	Teragrams	WaTEM/SEDEM	Spatially distributed sediment delivery model
TS	Technical Summary		combining the WaTEM and SEDEM models

**WBA** World Bioenergy Association

**WBCSD** World Business Council for Sustainable

Development

WEF World Energy Council
WEF World Economic Forum
WEO World Energy Outlook

**WEPP** Water Erosion Prediction Project

WET Wetland Extent Trends
WFP World Food Programme
WGI IPCC Working Group I
WGII IPCC Working Group II
WGIII IPCC Working Group III
WHO World Health Organisation

WMO World Meteorological Organisation

**WOCAT** World Overview of Conservation Approaches

and Technologies

WRI World Resources Institute

**WSOA** Water Soluble Organic Compounds

**WTO** World Trade Organisation

**WUE** Water Use Efficiency

**yr** Year

**ZNLD** Zero Net Land Degradation