

ACRONYMS

Common acronyms used throughout the book are defined here. Additional details on asterisked terms are provided in the Glossary of Terms.

3D-Var	Three-dimensional Variational (Data Assimilation)
4D-Var	Four-dimensional Variational (Data Assimilation)
AGCM*	Atmospheric Global Circulation Model
ACMAD	African Centre of Meteorological Applications for Development
AGRHYMET	Centre Regional de Formation et d'Application en Agrométéorologie et Hydrologie Opérationnelle
AIACC	Assessments of Impacts and Adaptation to Climate Change
AMIP	Atmospheric Model Intercomparison Project
APSIM	Agricultural Production System Simulator
APSRU	Agricultural Production Systems Research Unit
AR	Autoregressive
ARSCO	American Association of State Climatologists Recognized State Climate Office
AU	African Union
BMA	Basin Management Agency
BMRC	Bureau of Meteorology Research Centre
BoM	Bureau of Meteorology
CC*	Climate Change
CCA	Canonical Correlation Analysis
CDF*	Cumulative Distribution Function
CEP	Conditional Exceedance Probability
CGCM*	Coupled Global Circulation Model
CIMMS	Cooperative Institute for Mesoscale Meteorological Studies
CLIMAG	Climate Prediction and Agriculture
CLIPER	CLImatology and PERsistence
CLIPS	Climate Information and Prediction Services
CNRM	Centre National de Recherches Météorologiques
COPES	Coordinated Observation and Prediction of the Earth System
CV*	Climate Variability

DA*	Data Assimilation
DEMETER	Development of a European Multimodel Ensemble system for seasonal to inter-annual prediction
DEWA	Department of Early Warning and Assessment
DJF	December, January, February
DMC	Drought Monitoring Centre
DMN	Direction de la Météorologie Nationale
DNA	Deoxyribonucleic acid
DSP	Dynamical Seasonal Prediction
ECHAM	ECWMF-Max Plank Institute Hamburg
ECMWF	European Centre for Medium-Range Weather Forecasts
EDS	Early Detection System
ENACT	Enhanced ocean data Assimilation and Climate Prediction
EnKF	Ensemble Kalman Filter
ENSO*	El Niño/Southern Oscillation
EOF*	Empirical Orthogonal Function
ERA-15	ECMWF Re-analyses (for the 15-year period 1979-1993)
ERA-40	ECMWF Re-analyses (for the 40-year+ period 1958-2001)
ERS	European Remote Sensing
ESSP	Earth System Science Partnership
EUC*	Equatorial Under Current
EUROBRISA	EURO-Brazilian Initiative for improving South American seasonal forecasts
EUROSIP	European multi-model Seasonal to Inter-annual Prediction
EWS	Early Warning System
FAO	Food and Agriculture Organization
FAWN	Florida Automated Weather Network
FEWS NET	Famine Early Warning Systems Network
FLC	Florida Climate Consortium
FMAM	February, March, April, May
GAEMN	Georgia Environmental Monitoring Network
GCM*	Global Circulation Model
GCOS	Global Climate Observing System
GDP	Gross Domestic Product
GERB	Geostationary Earth Radiation Budget
GHR SST	GODAE High Resolution Sea Surface Temperature

GIEWS	Global Information and Early Warning System (FAO)
GI	Gigalitres (10^9 litres)
GLM	Generalised Linear Model
GMT	Greenwich Mean Time
GODAE	Global Ocean Data Assimilation Experiment
GPC	Global Producing Centre
Ha	Hectare (10,000 square metres)
HEWS	Humanitarian Early Warning System
hPa	hectoPascal (a measure of pressure)
IASC	Inter-Agency Standing Committee
IBM	International Business Machines
ICPAC	IGAD Climate Prediction and Applications Centre
ICSU	International Council for Science
ICTZ*	Inter Tropical Convergence Zone
IGAD	Intergovernmental Authority on Development
IGBP	International Geosphere-Biosphere Programme
IHDP	International Human Dimensions Programme
iid	Identically and Independently Distributed
IMD	Indian Meteorological Department
IOC	Intergovernmental Oceanographic Commission
IPCC	Inter-Governmental Panel on Climate Change
IQQM	Integrated Quantity Quality Model (hydrological)
IRI	International Research Institute for Climate and Society
JAS	July, August, September
JFM	January, February, March
JJA	June, July, August
JMA	Japanese Meteorological Agency
KBDI	Keetch-Byram Drought Index
KF	Kalman Filter
LAD	Least absolute deviation
LEPS	Linear error in probability space
LPM	Linear Programming Model
MAPE	Maximum A Posteriori Estimate
MCA	Maximum Covariance Analysis
MDG*	Millennium Development Goal

MEWS	Malaria Early Warning System
MJJ	May, June, July
MLE	Maximum Likelihood Estimate
MOS	Model Output Statistics
MoU	Memorandum of Understanding
NAO*	North Atlantic Oscillation
NCEP	National Centers for Environmental Prediction
NDJ	November, December, January
NGO	Non-Governmental Organisation
NMHS	National Meteorological and Hydrological Service
NMS	National Meteorological Service
NOAA	National Oceanic and Atmospheric Administration
NCDC	National Climate Data Center
NSWDLWC	New South Wales Department of Land and Water Conservation (Australia)
NWP	Numerical Weather Prediction
OCN	Optimal Climate Normal
ODA	Official Development Assistance
OGCM*	Oceanic (or Ocean) Global Circulation Model
OGP	Office of Global Programs
OI	Optimal (or Optimum) Interpolation
OLS	Ordinary Least Squares
OND	October, November, December
ORMVA	Offices Régionaux de Mise en Valeur Agricole
PCR	Principal Components Regression
PDF (or pdf)*	Probability Density (or Distribution) Function
PNA	Pacific–North America
POP	Principal Oscillation Pattern
PROVOST	PRediction Of climate Variations On Seasonal to interannual Time-scales
QDPI	Queensland Department of Primary Industries
RANET	RADio and InterNET for the Communication of Hydro-Meteorological and Climate Related Information
RCC	Regional Climate Centre
RCOF	Regional Climate Outlook Forum
RISA	Regional Integrated Sciences and Assessment
RMS (rms)	Root-Mean-Square

RMSE (rmse)	Root-Mean-Square Error
SADC	Southern African Development Community
SCOPIIC	Seasonal Climate Outlook for the Pacific Island Countries
SECC	Southeast Climate Consortium
SINERGEE	Simulations from a Numerical weather prediction model to Exploit Radiation data from a new Geostationary satellite, Explore radiative processes and Evaluate models.
SIP	Seasonal to Interannual Prediction
SO*	Southern Oscillation
SOI*	Southern Oscillation Index
SSA	Singular Spectrum Analysis
SSH	Sea Surface Height
SST	Sea Surface Temperature
SSTA	Sea Surface Temperature Anomaly
START	SysTem for Analysis, Research and Training
SVD	Singular Value Decomposition
TAO*	Tropical Atmosphere Ocean
TOGA	Tropical Ocean Global Atmosphere
UN	United Nations
UNCED	United Nations Conference on Environmental Development (1992)
UNEP	United Nations Environment Programme
UNFCCC*	United Nations Framework Convention on Climate Change
USDA	United States Department of Agriculture
USDA- CSREES	USDA Cooperative State Research, Education, and Extension Service
USDA-RMA	USDA Risk Management Agency
UTC	Coordinated Universal Time
WB	World Bank
WCP	World Climate Programme
WCASP	World Climate Applications and Services Programme
WCDMP	World Climate Data and Monitoring Programme
WCIRP	World Climate Impact Assessment and Response Strategies Programme
WCRP	World Climate Research Programme
WFP	World Food Programme
WHO	World Health Organization

WMO*	World Meteorological Organization
XBT	eXpendable BathyThermographs
Z	Zulu: abbreviated form of time equivalent as far as meteorological practice requires to GMT or UTC