

LIST OF ABBREVIATION

Abbreviation	Full Form
ACF	Autocorrelation Function
ADF	Augmented Dickey-Fuller
AIC	Akaike Information Criterion
AO	Arctic Oscillation
AOGCM	Atmosphere-Ocean General Circulation Models
AR	Assessment Report
ARIMA	Autoregressive Integrated Moving Average
BIC	Bayesian Information Criterion
BOM	Bureau of Meteorology
CGCM	Coupled General Circulation Model
CI	Confidence Interval
CMIP	Coupled Model Intercomparison Project
CPC	Climate Prediction Center
CRU	Climatic Research Unit
CV	Coefficient of Variation
C3S	Copernicus Service Climate Change
DMI	Dipole Mode Index
DSS	Decision Support Systems
EEZ	Exclusive Economic Zone
ENSO	El Niño-Southern Oscillation
ERSST	Extended Reconstructed Sea Surface Temperature
EWE	Extreme Weather Events
GCM	General Circulation Models
GISS	Goddard Institute for Space Studies
GISTEMP	GISS Surface Temperature Analysis
GSDMA	Gujarat State Disaster Management Authority
HW	Heat Wave
IMD	Indian Meteorological Department
IMDLIB	Indian Meteorological Department Library
IPCC	Intergovernmental Panel on Climate Change

ISFR	India State of Forest Report
IOD	Indian Ocean Dipole
IQR	Interquartile Range
JF	January-February
JJAS	June-July-August-September
LSTM	Long Short-Term Memory
MA	Moving Average
MAM	March-April-May
MJO	Madden-Julian Oscillation
MCW	Moderate Cold Wave
MoSPI	Ministry of Statistics and Programme Implementation
MSE	Mean Squared Error
NAO	North Atlantic Oscillation
NASA	National Aeronautics and Space Administration
NCEP	National Centers for Environmental Prediction
NDC	National Data Centre
NEM	Northeast Monsoon
NOAA	National Oceanic and Atmospheric Administration
OND	October-November-December
ONI	Oceanic Niño Index
PACF	Partial Autocorrelation Function
PCI	Precipitation Concentration Index
PDO	Pacific Decadal Oscillation
PET	Potential Evapotranspiration
QGIS	Quantum GIS
RHTE	Rather Heavy to Extremely Heavy Rainfall Events
RMSE	Root Mean Squared Error
SAPCC	State Action Plan on Climate Change
SARIMA	Seasonal Autoregressive Integrated Moving Average
SARIMAX	Seasonal Autoregressive Integrated Moving Average with Exogenous Variables
SCW	Severe Cold Wave
SD	Standard Deviation

SETIO	Southeastern Tropical Indian Ocean
SHW	Severe Heat Wave
SPCI	Seasonal Precipitation Concentration Index
SSE	Sen's Slope Estimator
SSP	Shared Socioeconomic Pathways
SST	Sea Surface Temperatures
SWM	Southwest Monsoon
SWMR	Southwest Monsoon Rainfall
T_{\max}	Maximum Temperature
T_{\min}	Minimum Temperature
TSF	Time Series Forecast
UNFCCC	United Nations Framework Convention on Climate Change
WMO	World Meteorological Organization
WTIO	Western Tropical Indian Ocean