

Supplementary Materials: Application of Machine Learning Techniques to Delineate Homogeneous Climate Zones in River Basins of Pakistan for Hydro-Climatic Change Impact Studies

Ammara Nusrat *, Hamza Farooq Gabriel, Sajjad Haider, Shakil Ahmad, Muhammad Shahid and Saad Ahmed Jamal

School of Civil and Environmental Engineering National University of Sciences and Technology, Islamabad 44000, Pakistan; hamza.gabriel@nice.nust.edu.pk (H.F.G.); sajjadhaider@nice.nust.edu.pk (S.H.); shakilahmad@nice.nust.edu.pk (S.A.); m.shahid@nice.nust.edu.pk (M.S.); sahmed.be16igis@igis.nust.edu.pk (S.A.)

* Correspondence: ammara.phd14nice@student.nust.edu.pk; Tel.: +92-346-500-1107

Table S1. Descriptions of the general circulation models (GCMs) used in the study [44].

Model	Organisation
ACCESS1-0	CSIRO (Commonwealth Scientific and Industrial Research Organisation, Australia) and BOM (Bureau of Meteorology, Australia)
BCC-CSM1-1	Beijing Climate Center, China Meteorological Administration
BNU-ESM	College of Global Change and Earth System Science, Beijing Normal University
CanESM2	Canadian Centre for Climate Modelling and Analysis
CCSM4	National Center for Atmospheric Research
CESM1-BGC	National Science Foundation, Department of Energy, National Center for Atmospheric Research
CNRM-CM5	Centre National de Recherches Météorologiques/Centre Européen de Recherche et Formation Avancées en Calcul Scientifique
CSIRO-MK3-6-0	Commonwealth Scientific and Industrial Research Organisation in collaboration with the Queensland Climate Change Centre of Excellence
GFDL-CM3	NOAA's Geophysical Fluid Dynamics Laboratory
GFDL-ESM2G	NOAA's Geophysical Fluid Dynamics Laboratory
GFDL-ESM2M	NOAA's Geophysical Fluid Dynamics Laboratory
INMCM4	Institute for Numerical Mathematics, Moscow, Russia
IPSL-CM5A-LR	Institut Pierre-Simon Laplace
IPSL-CM5A-MR	Institut Pierre-Simon Laplace
MIROC-ESM	Japan Agency for Marine-Earth Science and Technology, Atmosphere and Ocean Research Institute (The University of Tokyo), and National Institute for Environmental Studies
MIROC-ESM-CHEM	Japan Agency for Marine-Earth Science and Technology, Atmosphere and Ocean Research Institute (The University of Tokyo), and National Institute for Environmental Studies
MIROC5	Japan Agency for Marine-Earth Science and Technology, Atmosphere and Ocean Research Institute (The University of Tokyo), and National Institute for Environmental Studies
MPI-ESM-LR	Max Planck Institute for Meteorology (MPI-M)
MPI-ESM-MR	Max Planck Institute for Meteorology (MPI-M)
MRI-CGCM3	Meteorological Research Institute
NorESM1-M	Norwegian Climate Centre