Supplementary Material

Table S1. Statistical Analysis of Average Precipitation (mm/day) of RCP 4.5 along with Mann-Kendall and Sen's slope estimator for the years 2010 to 2099.

ZONE 1												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Mean	0.235	0.396	0.347	0.249	0.277	0.552	1.341	2.074	1.926	1.173	0.427	0.210
Median	0.079	0.076	0.048	0.034	0.056	0.256	0.353	0.905	1.205	0.671	0.176	0.074
Max	2.045	3.833	3.646	2.844	2.693	3.032	10.338	10.943	8.391	5.405	2.640	1.507
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
St.dev	0.367	0.678	0.685	0.520	0.481	0.747	2.069	2.624	2.047	1.439	0.593	0.293
MK (Z)	-1.311	-0.137	0.849	-1.185	-0.496	-3.166	-3.852	-1.932	2.095	4.451	2.724	1.341
Sen (Q)	0.000	0.000	0.000	0.000	0.000	-0.005	-0.011	-0.007	0.011	0.017	0.003	0.000
ZONE 3												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Mean	0.229	0.365	0.334	0.227	0.222	0.449	1.097	1.497	1.220	0.680	0.265	0.166
Median	0.067	0.082	0.081	0.055	0.027	0.216	0.379	0.843	0.693	0.341	0.111	0.058
Max	2.590	3.186	5.374	3.838	2.428	3.127	7.881	8.338	6.260	3.570	3.331	1.502
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
St.dev	0.369	0.557	0.672	0.507	0.418	0.648	1.733	1.942	1.346	0.820	0.495	0.268
MK (Z)	-1.207	-0.246	0.723	-0.688	-1.201	-3.030	-3.415	-1.469	1.674	3.397	2.057	0.776
Sen (Q)	0.000	0.000	0.000	0.000	0.000	-0.003	-0.008	-0.004	0.005	0.007	0.001	0.000

Table S2. Statistical Analysis of Average Precipitation (mm/day) of RCP 8.5 along with Mann-Kendall and Sen's slope estimator for the years 2010 to 2099.

ZONE 1												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Mean	0.200	0.259	0.275	0.288	0.283	0.466	1.344	2.509	2.395	1.117	0.509	0.241
Median	0.050	0.053	0.049	0.068	0.076	0.120	0.364	1.617	1.453	0.699	0.229	0.108
Max	2.057	6.036	2.986	5.272	3.414	4.231	6.853	11.495	15.908	6.331	3.906	1.688
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
St.dev	0.347	0.674	0.568	0.790	0.618	0.829	1.858	2.724	3.104	1.241	0.733	0.361
MK (Z)	0.017	0.599	0.777	-1.418	-1.623	-4.301	-3.740	-1.315	1.360	3.789	1.593	1.573
Sen (Q)	0.000	0.000	0.000	0.000	0.000	-0.004	-0.012	-0.008	0.009	0.012	0.001	0.001
ZONE 3												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Mean	0.195	0.246	0.253	0.237	0.253	0.350	0.983	1.739	1.531	0.707	0.367	0.233
Median	0.063	0.068	0.059	0.046	0.063	0.072	0.151	0.983	0.870	0.404	0.174	0.085
Max	1.836	3.333	3.498	2.742	2.630	3.392	6.354	7.719	9.873	5.404	3.643	1.968
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
St.dev	0.329	0.463	0.518	0.472	0.495	0.629	1.546	2.057	2.060	0.972	0.609	0.366
MK (Z)	0.356	0.414	0.326	-1.148	-1.641	-3.877	-3.413	-1.040	1.339	3.231	0.656	1.099
Sen (Q)	0.000	0.000	0.000	0.000	0.000	-0.003	-0.006	-0.003	0.005	0.006	0.000	0.000

Table S3. Statistical Analysis of Potential Evapotranspiration data of RCP 4.5 along with Mann-Kendall and Sen's slope estimator for the years 2010 to 2099.

ZONE 1												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Mean	4.231	4.534	5.127	6.196	7.035	7.574	7.552	6.884	6.459	5.837	5.337	4.676
Median	4.132	4.531	5.095	6.246	7.038	7.556	7.595	6.893	6.481	5.885	5.442	4.690
Max	5.256	5.100	6.123	6.950	7.610	8.028	8.021	7.424	6.862	6.199	6.006	5.668
Min	3.449	3.949	4.400	5.340	6.387	7.024	6.962	6.344	5.902	4.996	4.244	3.811
St.dev	0.374	0.240	0.364	0.415	0.274	0.169	0.242	0.258	0.214	0.251	0.410	0.492
MK (Z)	8.609	-0.167	-7.939	-8.978	-7.131	1.108	8.518	9.361	8.483	7.960	9.557	10.532
Sen (Q)	0.012	0.000	-0.011	-0.013	-0.008	0.001	0.008	0.008	0.006	0.007	0.013	0.017
ZONE 3												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Mean	4.178	4.457	5.053	6.176	7.139	7.792	7.789	7.066	6.582	5.899	5.353	4.653
Median	4.100	4.470	4.991	6.214	7.164	7.812	7.826	7.061	6.595	5.957	5.452	4.677
Max	5.239	5.027	6.136	7.107	8.007	8.273	8.301	7.653	7.091	6.367	6.062	5.653
Min	3.302	3.816	4.353	5.295	6.378	7.214	7.170	6.466	5.950	4.937	4.140	3.737
St.dev	0.388	0.240	0.383	0.465	0.343	0.204	0.275	0.291	0.247	0.291	0.448	0.511
MK (Z)	8.776	0.258	-8.260	-9.062	-7.514	0.153	8.162	9.480	9.090	9.034	10.086	10.651
Sen (Q)	0.012	0.000	-0.011	-0.015	-0.010	0.000	0.008	0.010	0.008	0.009	0.015	0.018

Table S4. Statistical Analysis of Potential Evapotranspiration data of RCP 8.5 along with Mann-Kendall and Sen's slope estimator for the years 2010 to 2099.

ZONE-1												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Mean	4.424	4.747	5.374	6.485	7.304	7.806	7.687	6.941	6.500	5.889	5.409	4.801
Median	4.290	4.725	5.371	6.540	7.294	7.782	7.679	6.924	6.501	5.948	5.477	4.779
Max	5.654	5.314	6.142	7.113	7.820	8.595	8.482	7.599	7.070	6.422	6.246	6.129
Min	3.402	3.885	4.517	5.672	6.824	7.216	7.001	6.444	5.958	5.071	4.189	3.661
St.dev	0.545	0.293	0.276	0.301	0.217	0.297	0.356	0.287	0.246	0.316	0.549	0.701
MK (Z)	9.612	4.503	-4.085	-4.057	1.415	9.340	11.202	10.358	9.675	9.835	10.916	11.487
Sen (Q)	0.019	0.006	-0.004	-0.005	0.001	0.009	0.013	0.010	0.008	0.011	0.020	0.026
ZONE-3												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Mean	4.370	4.662	5.296	6.482	7.430	8.061	7.969	7.142	6.632	5.965	5.428	4.775
Median	4.217	4.649	5.297	6.483	7.436	8.046	7.923	7.074	6.645	6.035	5.477	4.799
Max	5.700	5.222	6.254	7.327	7.971	8.768	8.825	7.887	7.220	6.548	6.403	6.220
Min	3.335	3.773	4.405	5.540	6.780	7.196	7.188	6.587	6.044	5.108	4.159	3.616
St.dev	0.570	0.304	0.302	0.361	0.251	0.317	0.425	0.344	0.276	0.354	0.590	0.732
MK (Z)	9.682	4.810	-4.538	-4.879	-0.558	9.250	11.034	10.121	9.515	10.031	11.097	11.453
Sen (Q)	0.019	0.007	-0.005	-0.007	-0.001	0.010	0.015	0.012	0.009	0.012	0.021	0.027