



Supplementary Data

Trend analysis of climatic variables for the subtropical region of Assam and its neighboring states in NE India

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Table S1 — Geographic characteristics of the meteorological stations considered in the study

S.N	Station	Latitude (°N)	Longitude (°E)	Altitude (m)	Area (km ²)
1	Agartala	23.8315	91.2868	13	983
2	Aizawl	23.7271	92.7176	1132	457
3	Along	28.1703	94.8019	300	8325
4	Barpeta	26.3216	90.9821	35	3245
5	Champai	23.4454	93.1780	1678	3185
6	Churachandpur	24.2994	93.2584	914	4570
7	Dhubri	26.0207	89.9743	47	2838
8	Dibrugarh	27.4728	94.9120	108	661
9	Golaghat	26.5239	93.9623	95	732
10	Guwahati	26.1445	91.7362	55	328
11	Halflong	25.1633	93.0128	966	4890
12	Imphal West	24.7828	93.8859	788	558
13	Kailashahar	24.3268	92.0126	29	1422
14	Kohima	25.6586	94.1053	1444	633
15	Kokrajhar	26.5136	90.2245	38	3129
16	Kolasib	24.1670	92.7382	888	1383
17	Lawntlai	22.3114	92.6984	847	2557
18	Lohitpur	28.0045	96.2084	185	2402
19	Lunglei	22.8671	92.7655	722	4536
20	Mon	26.8038	94.9767	655	1786
21	Nagaon	26.3464	92.6840	61	175
22	Namphong	26.9943	95.5407	61	2362
23	Lakhimpur	27.2253	94.1053	101	7680
24	Pashighat	28.0619	95.3259	153	4005
25	Saiha	22.3527	93.0576	1225	1400
26	Seppa	27.3940	93.2219	363	4134
27	Shillong	25.5788	91.8933	1525	643
28	Silchar	24.8333	92.7789	22	3786
29	Tangla	26.6573	91.9124	84	1585
30	Thoubal	24.5436	93.9674	765	514
31	Tuensang	26.2606	94.8159	1371	4228
32	Tura	25.5141	90.2032	349	3714
33	Ukhrul	24.9321	94.4800	1662	4544
34	West Kameng	27.4702	92.2135	213	7422
35	Zunheboto	26.0093	94.5238	1852	1255

Table S2 — Annual mean and standard deviation of the meteorological variables used in this study

Station	T _{max}	T _{min}	P	PET	VP
Agartala	29.904±0.348	21.003±0.383	206.040±33.227	5.179±0.129	24.943±0.265
Aizawl	29.086±0.360	20.125±0.399	227.195±32.569	5.203±0.142	23.568±0.262
Along	21.494±0.434	10.130±0.391	163.401±17.984	5.010±0.133	15.557±0.225
Barpeta	27.581±0.433	18.543±0.416	230.727±30.153	5.085±0.103	22.835±0.253
Champai	26.912±0.363	18.072±0.403	231.726±30.296	5.068±0.144	21.458±0.261
Churachandpur	24.148±0.367	15.185±0.380	257.181±38.596	4.911±0.130	19.035±0.260
Dhubri	29.617±0.385	19.870±0.421	185.840±25.607	5.328±0.107	24.188±0.256
Dibrugarh	27.719±0.470	18.163±0.422	183.688±21.144	5.161±0.129	23.483±0.242
Golaghat	27.533±0.431	18.067±0.400	186.690±21.670	5.164±0.117	23.069±0.253
Guwahati	26.201±0.439	17.382±0.414	292.044±42.313	4.962±0.105	21.448±0.257
Halflong	27.177±0.328	17.992±0.380	294.860±40.405	5.096±0.119	22.520±0.260
Imphal West	24.656±0.377	15.516±0.373	211.990±28.819	4.967±0.128	19.690±0.256
Kailashahar	29.414±0.353	19.987±0.390	227.447±39.543	5.273±0.132	24.041±0.263
Kohima	24.623±0.398	15.474±0.373	196.331±25.253	4.945±0.120	20.106±0.258
Kokrajhar	28.792±0.396	19.466±0.410	208.741±25.480	5.211±0.102	23.819±0.250
Kolasib	28.424±0.359	18.946±0.376	250.214±41.382	5.243±0.129	23.017±0.264
Lawntlai	29.080±0.382	20.912±0.438	274.405±36.757	5.049±0.181	24.424±0.260
Lohitpur	25.285±0.457	14.805±0.401	151.322±16.019	5.135±0.134	19.720±0.237
Lunglei	29.408±0.375	20.982±0.427	236.470±30.730	5.124±0.165	24.175±0.259
Mon	24.428±0.449	14.850±0.404	170.319±18.727	4.982±0.126	19.927±0.254
Nagaon	24.689±0.431	16.024±0.406	293.951±41.491	4.861±0.110	20.171±0.258
Namphong	23.607±0.444	13.387±0.408	182.002±22.520	4.926±0.106	18.357±0.247
Lakhimpur	28.716±0.462	19.013±0.413	178.104±18.613	5.265±0.120	24.197±0.246
Pashighat	25.667±0.441	15.208±0.402	160.959±16.846	4.973±0.116	20.651±0.229
Saiha	28.542±0.380	20.191±0.439	270.098±35.178	5.065±0.179	23.633±0.257
Seppa	27.543±0.445	13.901±0.391	174.258±17.539	5.119±0.101	22.477±0.244
Shillong	20.259±0.428	10.281±0.426	227.415±36.255	5.143±0.106	23.341±0.256
Silchar	28.385±0.373	18.678±0.375	275.713±42.969	5.265±0.121	23.171±0.258
Tangla	27.415±0.456	17.880±0.413	234.789±29.513	5.156±0.105	22.536±0.255
Thoubal	23.560±0.373	14.485±0.375	217.880±30.102	4.937±0.190	18.464±0.265
Tuensang	22.258±0.420	12.721±0.389	164.142±17.638	4.850±0.123	17.536±0.255
Tura	28.501±0.402	19.365±0.425	189.672±27.976	5.306±0.115	24.405±0.260
Ukhrul	24.059±0.380	14.761±0.373	169.417±20.960	4.849±0.112	19.049±0.254
West Kameng	24.348±0.440	12.959±0.414	155.697±16.564	5.141±0.125	18.426±0.246
Zunheboto	23.183±0.414	13.785±0.383	169.443±19.031	4.892±0.122	18.562±0.255

Table S3 — The Mann-Kendall test results for the precipitation (P)

Station	Mann-Kendall test statistics (Z_s)				
	Winter	Pre-Monsoon	Monsoon	Post-Monsoon	Annual
Agartala	0.20	-0.58 ▼	-1.67 ▼	-1.14 ▼	-0.74 ▼
Aizawl	0.30	-0.12 ▼	-0.48 ▼	-1.30 ▼	-1.04 ▼
Along	0.50	0.70	-2.56 ▼	-0.66 ▼	-2.36 ▼
Barpeta	0.05	0.14	-1.97 ▼	-0.86 ▼	-0.98 ▼
Champhai	0.36	0.14	-0.36 ▼	-1.57 ▼	-1.02 ▼
Churachandpur	0.30	0.38	-0.63 ▼	-0.63 ▼	-0.89 ▼
Dhubri	0.12	1.64	0.73	0.51	0.70
Dibrugarh	0.34	-0.22 ▼	1.73	0.58	1.76
Golaghat	0.63	-0.24 ▼	-2.25 ▼	-0.94 ▼	-2.06 ▼
Guwahati	0.78	-0.15 ▼	-0.10 ▼	-0.89 ▼	-0.22 ▼
Halflong	0.50	-0.40 ▼	-1.02 ▼	-0.95 ▼	-1.15 ▼
Imphal	0.19	-0.77 ▼	-0.86 ▼	-1.24 ▼	-1.09 ▼
Kailashahar	0.56	-0.04 ▼	-0.66 ▼	-0.86 ▼	-0.91 ▼
Kohima	0.37	-0.132 ▼	-1.14 ▼	-0.95 ▼	-1.85 ▼
Kokrajhar	0.88	-0.24 ▼	-0.62 ▼	-1.08 ▼	-0.54 ▼
Kolasib	0.23	-0.66 ▼	-0.65 ▼	-1.31 ▼	-0.90 ▼
Lawntlai	0.33	-0.19 ▼	-0.16 ▼	-1.28 ▼	-0.82 ▼
Lohitpur	0.17	-0.21 ▼	-3.04 ▼	-0.86 ▼	-2.66 ▼
Lunglei	0.32	-0.10 ▼	-3.04 ▼	-1.37 ▼	-0.78 ▼
Mon	0.11	-0.41 ▼	-2.89 ▼	-0.82 ▼	-2.91 ▼
Nagaon	0.77	-0.52 ▼	-0.37 ▼	-0.61 ▼	-1.20 ▼
Namphong	0.89	-0.15 ▼	-1.23 ▼	-0.39 ▼	-1.741 ▼
Lakhimpur	0.11	-0.22 ▼	-1.90 ▼	-0.24 ▼	-2.08 ▼
Pashighat	0.10	-0.45 ▼	-2.16 ▼	-1.34 ▼	-0.41 ▼
Saiha	0.38	-0.55 ▼	-0.66 ▼	-1.69 ▼	-0.93 ▼
Seppa	0.12	-0.57 ▼	-0.05 ▼	-0.86 ▼	-0.45 ▼
Shillong	0.71	-0.81 ▼	-0.10 ▼	-1.10	-0.48 ▼
Silchar	0.24	-0.27 ▼	-1.17 ▼	-1.58 ▼	-1.08 ▼
Tangla	0.70	-0.23 ▼	0.87	1.37	-0.31 ▼
Thoubal	0.25	-0.26 ▼	-0.28 ▼	-0.73 ▼	-0.97 ▼
Tuensang	0.08	-0.74 ▼	-2.30 ▼	-0.61 ▼	-2.30 ▼
Tura	0.30	0.19	-2.30 ▼	-0.95 ▼	-0.87 ▼
Ukhrul	0.17	-0.23 ▼	-1.75 ▼	-3.07 ▼	-1.53 ▼
West Kameng	0.12	-1.14 ▼	-1.02 ▼	-0.82 ▼	-3.02 ▼
Zunheboto	0.12	-0.54 ▼	-2.22 ▼	-1.03 ▼	-2.06 ▼

Z_s : Standard normal test statistics; ▲ : increasing trend; ▼ : decreasing trend; * Bold number represents statistically significant trends at the 5 % level of significance

Table S4 — The Sen's slope test results for the precipitation (P)

Station	Sen's Slope (Q_{med})				
	Winter	Pre-Monsoon	Monsoon	Post-Monsoon	Annual
Agartala	0.017	-0.051 ▼	-0.723 ▼	-0.838 ▼	-0.203 ▼
Aizawl	0.034	-0.018 ▼	-0.494 ▼	-0.941 ▼	-0.414 ▼
Along	0.048	0.036	-1.428 ▼	-0.283 ▼	-0.185 ▼
Barpeta	0.093	0.097	-1.248 ▼	-0.124 ▼	-0.017 ▼
Champhai	0.038	0.147	-0.031 ▼	-0.125 ▼	-0.132 ▼
Churachandpur	0.024	0.001	-0.102 ▼	-0.167 ▼	-0.174 ▼
Dhubri	0.001	0.016	0.001	0.001	0.004
Dibrugarh	0.002	-0.150 ▼	0.014	0.019	0.028
Golaghat	0.059	-0.202 ▼	-0.154 ▼	-0.389 ▼	-0.245 ▼
Guwahati	0.067	-0.137 ▼	-0.005 ▼	-0.691 ▼	-0.026 ▼
Halflong	0.071	-0.047 ▼	-0.132 ▼	-0.786 ▼	-0.134 ▼
Imphal	0.033	-0.047 ▼	-0.187 ▼	-0.897 ▼	-0.221 ▼
Kailashahar	0.034	0.002 ▼	-0.077 ▼	-0.457 ▼	-0.189 ▼
Kohima	0.051	-0.605 ▼	-0.127 ▼	-0.557 ▼	-0.148 ▼
Kokrajhar	0.046	-0.166 ▼	-0.054 ▼	-0.987 ▼	-0.590 ▼
Kolasib	0.026	-0.377 ▼	-0.719 ▼	-0.988 ▼	-0.208 ▼
Lawntlai	0.028	-0.080 ▼	-0.016 ▼	-0.103 ▼	-1.298 ▼
Lohitpur	0.010	-0.122 ▼	-1.66 ▼	-0.296 ▼	-1.290 ▼
Lunglei	0.023	-0.002 ▼	-0.167 ▼	-0.978 ▼	-0.974 ▼
Mon	0.009	-0.047 ▼	-0.360 ▼	-0.340 ▼	-2.359 ▼
Nagaon	0.082	-0.013 ▼	-0.178 ▼	-0.532 ▼	-0.297 ▼
Namphong	0.53	-0.060 ▼	-0.139 ▼	-0.106 ▼	-1.089 ▼
Lakhimpur	0.010	-0.088 ▼	-0.912 ▼	-0.134 ▼	-1.788 ▼
Pashighat	0.001	-0.027 ▼	-0.132 ▼	-0.122 ▼	-0.418 ▼
Saiha	0.034	-0.209 ▼	-0.061 ▼	-0.682 ▼	-1.494 ▼
Seppa	0.002	-0.352 ▼	-0.005 ▼	-0.682 ▼	-0.444 ▼
Shillong	0.047	-0.074 ▼	-0.001 ▼	-0.875	-0.617 ▼
Silchar	0.042	-0.015 ▼	-0.117 ▼	-0.991 ▼	-0.287 ▼
Tangla	0.051	-0.017 ▼	0.113	0.874	-0.512 ▼
Thoubal	0.029	-0.087 ▼	-0.038 ▼	-0.313 ▼	-1.089 ▼
Tuensang	0.008	-0.343 ▼	-1.321 ▼	-0.368 ▼	-0.879 ▼
Tura	0.019	0.104	-0.128 ▼	-0.546 ▼	-0.940 ▼
Ukhrul	0.022	-0.101 ▼	-0.137 ▼	-0.066 ▼	-1.310 ▼
West Kameng	0.013	-0.066 ▼	-0.853 ▼	-0.377 ▼	-2.597 ▼
Zunheboto	0.013	-0.008 ▼	-1.358 ▼	-0.008 ▼	-1.820 ▼

Q_{med} : Sen's slope estimator. ▲: increasing trend; ▼: decreasing trend; * Bold number represents statistically significant trends at the 5% level of significance

Table S5 — The Mann-Kendall test results for the potential evapotranspiration (PET)					
Station	Mann-Kendall test statistics (Z_s)				
	Winter	Pre-Monsoon	Monsoon	Post-Monsoon	Annual
Agartala	0.01	0.14	1.43	1.10	1.07
Aizawl	0.31	0.66	1.89 ▲	1.45	1.33
Along	1.49	1.59	2.42 ▲	1.25	1.46
Barpeta	0.49	0.96	1.63	1.37	1.50
Champhai	0.54	0.88	1.08	1.37	1.42
Churachandpur	0.69	1.13	2.54 ▲	1.76	2.01 ▲
Dhubri	0.12	0.96	0.73	0.51	0.70
Dibrugarh	0.37	1.21	2.61 ▲	1.14	1.38
Golaghat	0.40	1.20	2.77 ▲	1.57	1.86
Guwahati	0.57	1.17	2.43▲	1.53	1.76
Halflong	0.24	0.99	2.63 ▲	1.55	1.89
Imphal	0.43	0.47	2.63 ▲	1.81	1.96
Kailashahar	0.05	1.32	2.00 ▲	1.43	1.39
Kohima	0.56	0.56	3.04 ▲	1.60	2.06 ▲
Kokrajhar	0.67	0.65	0.84	0.70	0.71
Kolasib	0.03	0.71	2.41 ▲	1.60	1.64
Lawntlai	0.46	0.68	0.80	1.02	0.57
Lohitpur	0.05	0.67	2.68 ▲	1.00	1.04
Lunglei	0.55	1.20	1.20	1.14	0.78
Mon	0.45	1.40	2.93 ▲	1.36	1.72
Nagaon	0.69	1.30	2.61 ▲	1.59	2.00▲
Namphong	0.37	1.09	2.73 ▲	1.17	1.67
Lakhimpur	0.65	1.07	2.57 ▲	1.45	1.61
Pashighat	0.02	0.67	2.46 ▲	1.24	1.24
Saiha	0.46	1.28	0.82	1.05	0.59
Seppa	0.12	0.54	1.95	1.48	1.88
Shillong	0.21	0.65	1.29	1.04	1.33
Silchar	0.69	2.63 ▲	1.76	1.84	0.91
Tangla	0.56	1.18	2.54 ▲	1.76	2.01 ▲
Thoubal	0.57	1.31	2.69 ▲	1.95	2.10
Tuensang	0.51	0.12	3.12 ▲	1.76	1.87
Tura	0.48	1.17	1.20	0.90	1.08
Ukhrul	0.80	1.55	2.88 ▲	1.76	2.03
West Kameng	0.89	1.34	2.46 ▲	1.63	1.99 ▲
Zunheboto	0.97	1.74	3.08 ▲	1.70	2.05 ▲

Z_s : Standard normal test statistics; ▲: increasing trend; ▼: decreasing trend; * Bold number represents statistically significant trends at the 5% level of significance.

Table S6 — The Sen's slope test results for the potential evapotranspiration (PET)

Station	Sen's Slope (Q_{med})				
	Winter	Pre-Monsoon	Monsoon	Post-Monsoon	Annual
Agartala	0.001	0.001	0.003	0.003	0.007
Aizawl	0.001	0.002	0.001 ▲	0.004	0.010
Along	0.002	0.003	0.005 ▲	0.004	0.013
Barpeta	0.001	0.002	0.003	0.002	0.009
Champhai	0.001	0.002	0.005	0.004	0.011
Churachandpur	0.001	0.003	0.006 ▲	0.005	0.014 ▲
Dhubri	0.001	0.002	0.001	0.001	0.004
Dibrugarh	0.001	0.002	0.007 ▲	0.005	0.013
Golaghat	0.001	0.003	0.006 ▲	0.005	0.013
Guwahati	0.001	0.004	0.005▲	0.004	0.011
Halflong	0.002	0.002	0.006 ▲	0.005	0.014
Imphal	0.003	0.001	0.010 ▲	0.005	0.014
Kailashahar	0.001	0.003	0.005 ▲	0.004	0.009
Kohima	0.001	0.001	0.007 ▲	0.005	0.014 ▲
Kokrajhar	0.001	0.002	0.001	0.001	0.006
Kolasib	0.006	0.001	0.006 ▲	0.004	0.011
Lawntlai	0.001	0.001	0.003	0.003	0.005
Lohitpur	0.001	0.001	0.007 ▲	0.003	0.010
Lunglei	0.009	0.002	0.004	0.003	0.007
Mon	0.005	0.003	0.007 ▲	0.005	0.015
Nagaon	0.004	0.003	0.005 ▲	0.004	0.013▲
Namphong	0.001	0.002	0.008 ▲	0.005	0.015
Lakhimpur	0.004	0.002	0.006 ▲	0.005	0.013
Pashighat	0.001	0.001	0.006 ▲	0.004	0.012
Saiha	0.001	0.003	0.004	0.003	0.007
Seppa	0.001	0.001	0.004	0.003	0.011
Shillong	0.003	0.002	0.002	0.001	0.005
Silchar	0.002	0.006 ▲	0.004	0.013	0.002
Tangla	0.006	0.003	0.006 ▲	0.005	0.014 ▲
Thoubal	0.001	0.003	0.006 ▲	0.005	0.016
Tuensang	0.001	0.001	0.007 ▲	0.005	0.076
Tura	0.008	0.003	0.002	0.001	0.003
Ukhrul	0.002	0.003	0.007 ▲	0.005	0.015
West Kameng	0.004	0.003	0.005 ▲	0.004	0.013 ▲
Zunheboto	0.002	0.012	0.007 ▲	0.006	0.053 ▲

Q_{med} : Sen's slope estimator. ▲: increasing trend; ▼: decreasing trend; * Bold number represents statistically significant trends at the 5% level of significance.

Table S7 — The Mann-Kendall test results for the vapor pressure (VP)

Station	Mann-Kendall test statistics (Z_s)				
	Winter	Pre Monsoon	Monsoon	Post Monsoon	Annual
Agartala	2.18	1.056	1.77	2.85	2.38
Aizawl	2.88 ▲	1.80	1.16	2.85 ▲	2.66 ▲
Along	2.13▲	1.07	2.76	2.80▲	2.79▲
Barpeta	2.47▲	1.78▲	1.06▲	2.58▲	2.68▲
Champhai	2.87 ▲	1.87	1.21	2.60 ▲	2.56 ▲
Churachandpur	2.84 ▲	1.89	1.27	2.87 ▲	2.55 ▲
Dhubri	2.86 ▲	1.70	0.93	3.03 ▲	2.37 ▲
Dibrugarh	2.04 ▲	1.55	1.14	1.17	1.42
Golaghat	2.55 ▲	2.12 ▲	1.06	1.24	1.96
Guwahati	3.17 ▲	2.25 ▲	0.99	2.56▲	2.40▲
Halflong	2.68▲	2.59▲	1.38	2.09 ▲	2.08▲
Imphal	2.97 ▲	2.09▲	1.05	2.69 ▲	2.43 ▲
Kailashahar	2.43▲	1.58▲	2.69▲	2.70 ▲	1.01▲
Kohima	2.74 ▲	2.02▲	1.26	1.83▲	2.12 ▲
Kokrajhar	2.88 ▲	2.21▲	0.91	2.84▲	2.44 ▲
Kolasib	2.91 ▲	1.96▲	1.04	3.38 ▲	2.55 ▲
Lawntlai	2.78▲	1.37	0.47	2.90▲	2.94▲
Lohitpur	3.08 ▲	2.17▲	0.74	2.30▲	2.48▲
Lunglei	2.73▲	1.83	1.60	3.07▲	2.64▲
Mon	1.98▲	2.53▲	0.74	1.98	3.54▲
Nagaon	3.01 ▲	2.44▲	0.54	2.53▲	1.43▲
Namphong	2.71▲	1.81	0.67	3.01▲	2.69▲
Lakhimpur	3.32 ▲	1.78	1.73	2.13	2.07▲
Pashighat	3.07 ▲	2.35 ▲	0.98	1.65	1.93▲
Saiha	3.13 ▲	2.40▲	0.84	2.20▲	2.01 ▲
Seppa	2.07 ▲	1.84	1.96	2.08	2.07▲
Shillong	2.82 ▲	1.80	1.01	3.86▲	2.44 ▲
Silchar	3.00 ▲	2.17 ▲	1.13	2.94▲	2.67 ▲
Tangla	3.32 ▲	2.41 ▲	0.82	2.03▲	2.33 ▲
Thoubal	3.07▲	1.06	0.99	2.18	2.01▲
Tuensang	2.74▲	1.83	0.97	3.14	2.08▲
Tura	3.01 ▲	1.52	0.98	3.12 ▲	2.46 ▲
Ukhrul	2.74▲	1.60	0.56	2.45 ▲	2.23▲
West Kameng	2.47	2.80	0.87	2.16	2.34▲
Zunheboto	2.88▲	1.98	0.76	2.60	2.56▲

Z_s : Standard normal test statistics; ▲: increasing trend; ▼: decreasing trend; * Bold number represents statistically significant trends at the 5% level of significance.

Table S8 — The Sen's slope test result for the vapor pressure (VP)

Station	Sen's Slope (Q_{med})				
	Winter	Pre-Monsoon	Monsoon	Post-Monsoon	Annual
Agartala	0.880	0.014	0.016	0.019	0.078
Aizawl	0.015 ▲	0.010	0.005	0.014 ▲	0.042 ▲
Along	0.038▲	0.076	0.087▲	0.090▲	0.076▲
Barpeta	0.013▲	0.084▲	0.006	0.054▲	0.048▲
Champhai	0.014 ▲	0.010	0.005	0.013 ▲	0.041 ▲
Churachandpur	0.016 ▲	0.010	0.006	0.011 ▲	0.042 ▲
Dhubri	0.012 ▲	0.010	0.007	0.012 ▲	0.036 ▲
Dibrugarh	0.008 ▲	0.006	0.006	0.007	0.023
Golaghat	0.011 ▲	0.011 ▲	0.006	0.006	0.033
Guwahati	0.012 ▲	0.015 ▲	0.005	0.009▲	0.041▲
Halflong	0.078▲	0.027▲	0.038	0.057 ▲	0.048▲
Imphal	0.012 ▲	0.012▲	0.005	0.010 ▲	1.01 ▲
Kailashahar	0.104▲	0.073▲	0.053▲	0.044 ▲	0.061▲
Kohima	0.012 ▲	0.010▲	0.006	0.008▲	0.37 ▲
Kokrajhar	0.011 ▲	0.013▲	0.005	0.009▲	0.038 ▲
Kolasib	0.104 ▲	0.011▲	0.005	0.012 ▲	0.044 ▲
Lawntlai	0.021▲	0.043	0.051	0.001▲	0.007▲
Lohitpur	0.044 ▲	0.033▲	0.027	0.090▲	0.071▲
Lunglei	0.053▲	0.021	0.037	0.001▲	0.077▲
Mon	0.012▲	0.013▲	0.005	0.007	0.012▲
Nagaon	0.079 ▲	0.061▲	0.001	0.066▲	0.005▲
Namphong	0.088▲	0.013	0.009	0.022▲	0.027▲
Lakhimpur	0.009 ▲	0.016	0.017	0.013	0.007▲
Pashighat	0.010 ▲	0.013 ▲	0.005	0.006	0.034▲
Saiha	0.010 ▲	0.014▲	0.006	0.007▲	0.036 ▲
Seppa	0.017 ▲	0.018	0.101	0.076	0.81▲
Shillong	0.012 ▲	0.011	0.006	0.010▲	0.039 ▲
Silchar	0.013 ▲	0.012 ▲	0.005	0.010▲	0.043 ▲
Tangla	0.012 ▲	0.016 ▲	0.005	0.001▲	0.039 ▲
Thoubal	0.003▲	0.002	0.003	0.011	0.107▲
Tuensang	0.047▲	0.006	0.005	0.010	0.007▲
Tura	0.014 ▲	0.009	0.006	0.022 ▲	0.038 ▲
Ukhrul	0.049▲	0.014	0.001	0.031 ▲	0.034▲
West Kameng	0.022	0.037	0.051	0.018	0.011▲
Zunheboto	0.004▲	0.054	0.006	0.015	0.041▲

Q_{med} : Sen's slope estimator. ▲: increasing trend; ▼: decreasing trend; * Bold number represents statistically significant trends at the 5% level of significance