

Supplementary material

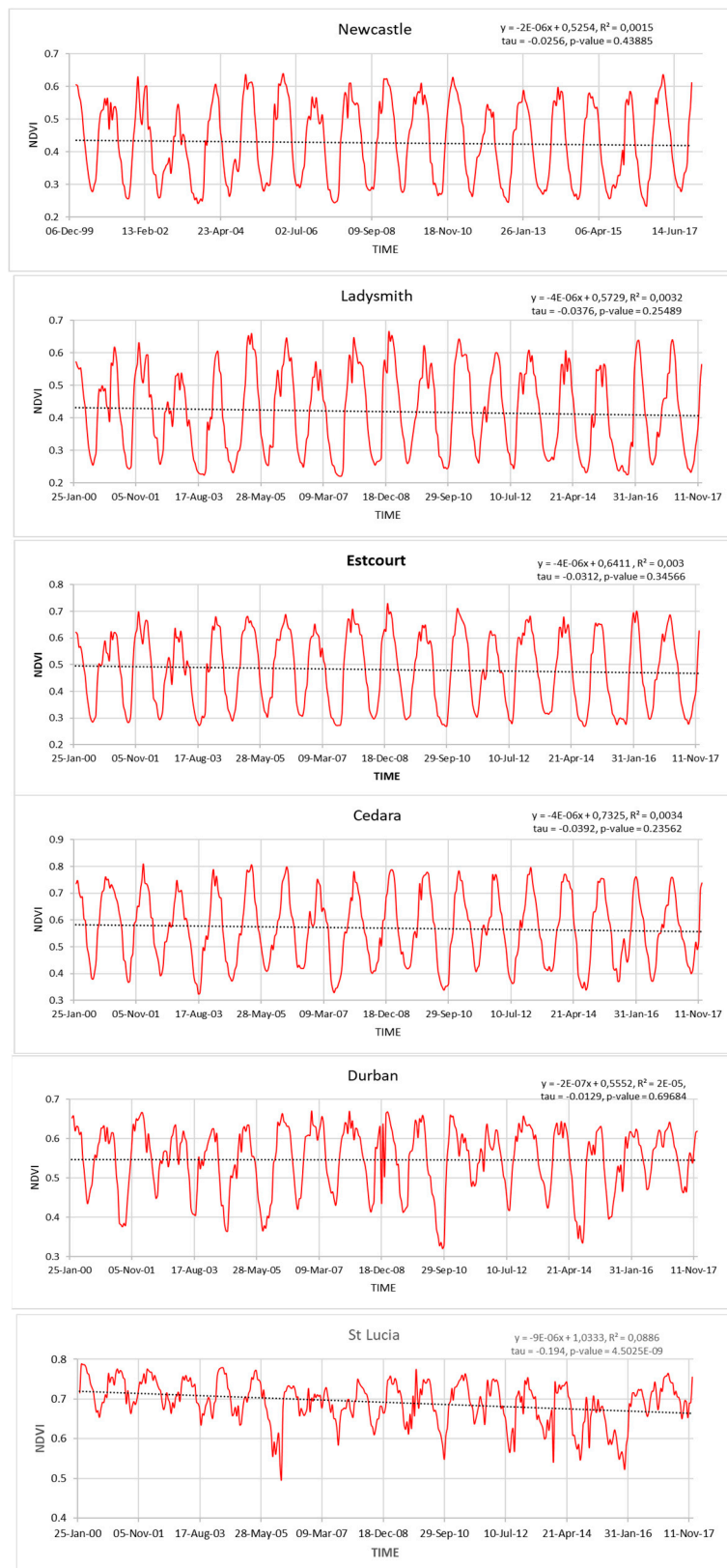


Figure S1. Mann-Kendall Test was run on the NDVI data from 2000 to 2020 and the time series data showed a significant monotonic downward trend indicating a constantly increasing drying conditions.

Table S1. Statistical outputs: Linear.

Air Temperature

SUMMARY OUTPUT Tmax Cape St Lucia 1968-2005									
<i>Regression Statistics</i>									
Multiple R	0.19454402								
R Square	0.03784738								
Adjusted R Square	0.01112091								
Standard Error	0.50616652								
Observations	38								
<i>ANOVA</i>									
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>				
Regression	1	0.36281158	0.36281158	1.41610128	0.241835				
Residual	36	9.22336348	0.25620454						
Total	37	9.58617506							
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>	
Intercept	7.0863048	14.8749069	0.47639322	0.63667308	-23.081405	37.2540143	-23.081405	37.2540143	
X—Year	0.00891059	0.00748788	1.19000054	0.241835	-0.0062755	0.02409672	-0.0062755	0.02409672	

SUMMARY OUTPUT Tmin Cape St Lucia 1968–2005

Regression Statistics

Multiple R	0.55867254
R Square	0.31211501
Adjusted R Square	0.29300709
Standard Error	0.3575345
Observations	38

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	2.08803239	2.08803239	16.3343297	0.00026698
Residual	36	4.6019131	0.12783092		
Total	37	6.68994549			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-24.478815	10.5070017	-2.3297622	0.02554306	-45.788002	-3.1696281
X – Year	0.02137639	0.00528912	4.04157516	0.00026698	0.01064955	0.03210322

SUMMARY OUTPUT Tmax Cedara 1968–2017

<i>Regression Statistics</i>	
Multiple R	0.59780876
R Square	0.35737531
Adjusted R Square	0.34398729
Standard Error	0.56157349
Observations	50

<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	8.41824515	8.41824515	26.6936752	4.5605E-06
Residual	48	15.1375097	0.31536479		
Total	49	23.5557549			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-33.856986	10.9657619	-3.0875179	0.0033494	-55.905128	-11.808844	-55.905128	-11.808844
X—Year	0.02843369	0.00550337	5.16659222	4.5605E-06	0.01736842	0.03949897	0.01736842	0.03949897

SUMMARY OUTPUT Tmin Cedara 1968–2017

<i>Regression Statistics</i>	
Multiple R	0.10731929
R Square	0.01151743
Adjusted R Square	-0.009076
Standard Error	0.45760757
Observations	50

<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.11711545	0.11711545	0.55927807	0.4581997
Residual	48	10.0514248	0.20940468		
Total	49	10.1685403			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	16.6321633	8.93563476	1.8613298	0.06882747	-1.3341346	34.5984611	-1.3341346	34.5984611
X—Year	-0.0033537	0.00448452	-0.747849	0.4581997	-0.0123705	0.00566298	-0.0123705	0.00566298

SUMMARY OUTPUT Tmax Durban 1968-2017

Regression Statistics

Multiple R	0.39003913
R Square	0.15213052
Adjusted R Square	0.13446657
Standard Error	0.39058928
Observations	50

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	1.31392088	1.31392088	8.6124871	0.00510906
Residual	48	7.32287912	0.15255998		
Total	49	8.6368			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	2.9589964	7.62697859	0.38796443	0.69975763	-12.376072	18.2940646
Year	0.01123329	0.00382774	2.93470392	0.00510906	0.0035371	0.01892949

SUMMARY OUTPUT Tmin Durban 1968-2017

Regression Statistics

Multiple R	0.24373411
R Square	0.05940632
Adjusted R Square	0.03981061
Standard Error	0.47658657
Observations	50

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.68858157	0.68858157	3.03159928	0.08806417
Residual	48	10.9024684	0.22713476		
Total	49	11.59105			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	0.48655142	9.30623496	0.05228231	0.95852073	-18.224888	19.1979909
X- Year	0.00813205	0.00467051	1.74114884	0.08806417	-0.0012586	0.01752274

SUMMARY OUTPUT Tmax Estcourt 1974-2017

Regression Statistics

Multiple R	0.56092575
R Square	0.31463769
Adjusted R Square	0.29831954
Standard Error	0.73740688
Observations	44

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	10.4846563	10.4846563	19.281456	7.4772 × 10 ⁻⁵
Residual	42	22.8382943	0.54376891		
Total	43	33.3229506			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-52.411401	17.469944	-3.0000898	0.00452515	-87.667176	-17.155627
X – Year	0.03844155	0.00875449	4.39106547	7.4772 × 10 ⁻⁵	0.02077427	0.05610883

<i>Regression Statistics</i>						
Multiple R	0.1508643					
R Square	0.02276					
Adjusted R Square	-0.0005076					
Standard Error	0.5766253					
Observations	44					
<i>ANOVA</i>						
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>	
Regression	1	0.3252433	0.3252433	0.9781851	0.32831115	
Residual	42	13.964861	0.3324967			
Total	43	14.290104				
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-3.5076834	13.660858	-0.256769	0.7986109	-31.076412	24.0610451
X—Year	0.0067706	0.0068457	0.9890324	0.3283112	-0.0070446	0.02058578

SUMMARY OUTPUT Tmax Ladysmith 1994–2017*Regression Statistics*

Multiple R	0.58233211
R Square	0.33911068
Adjusted R Square	0.30907026
Standard Error	0.94013543
Observations	24

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	9.97737415	9.97737415	11.2884787	0.00282968
Residual	22	19.4448018	0.88385463		
Total	23	29.4221759			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-161.20076	55.5989709	-2.899348	0.00831784	-276.50597	-45.895555
X – Year	0.09314493	0.02772308	3.35983314	0.00282968	0.03565078	0.15063908

SUMMARY OUTPUT Tmin Ladysmith 1994–2017*Regression Statistics*

Multiple R	0.28596126
R Square	0.08177384
Adjusted R Square	0.04003629
Standard Error	0.78804992
Observations	24

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	1.21673192	1.21673192	1.9592391	0.17553848
Residual	22	13.662499	0.62102268		
Total	23	14.8792309			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-54.421614	46.6047373	-1.1677271	0.25541707	-151.07392	42.2306953
X – Year	0.03252734	0.02323832	1.39972822	0.17553848	-0.015666	0.08072067

SUMMARY OUTPUT Tmax Newcastle 1984-2016*Regression Statistics*

Multiple R	0.47647904
R Square	0.22703227
Adjusted R Square	0.20209783
Standard Error	0.79957082
Observations	33

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	5.82105641	5.82105641	9.10516738	0.00505932
Residual	31	19.8187185	0.6393135		
Total	32	25.6397749			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-62.746554	29.235536	-2.1462427	0.03979169	-122.37282	-3.1202855
X – Year	0.04410828	0.0146176	3.01747699	0.00505932	0.01429548	0.07392108

SUMMARY OUTPUT Tmin Newcastle 1984–2016*Regression Statistics*

Multiple R	0.75216532
R Square	0.56575267
Adjusted R Square	0.55174469
Standard Error	0.47543248
Observations	33

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	9.1291187	9.1291187	40.3878887	4.485 × 10 ⁻⁷
Residual	31	7.00711746	0.22603605		
Total	32	16.1362362			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-99.492786	17.3837303	-5.7233278	2.7017 × 10 ⁻⁶	-134.94714	-64.038435
X – Year	0.05523745	0.00869177	6.35514663	4.485 × 10 ⁻⁷	0.03751048	0.07296443

CDDs

SUMMARY OUTPUT CDDs Cape St Lucia 1980-1990

<i>Regression Statistics</i>						
Multiple R	0.431206					
R Square	0.185939					
Adjusted R Square	0.095487					
Standard Error	4.854551					
Observations	11					
<i>ANOVA</i>						
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>	
Regression	1	48.44545	48.44545	2.055677	0.185454	
Residual	9	212.1	23.56667			
Total	10	260.5455				
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-1299.68	918.7848	-1.41457	0.190847	-3378.12	778.7538
Year	0.663636	0.462863	1.433763	0.185454	-0.38343	1.710706

SUMMARY OUTPUT CDDs Cedara 1980–1990

Regression Statistics

Multiple R	0.008175
R Square	6.68×10^{-5}
Adjusted R Square	-0.11104
Standard Error	23.32693
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.327273	0.327273	0.000601	0.98097
Residual	9	4897.309	544.1455		
Total	10	4897.636			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	155.0909	4414.914	0.035129	0.972744	-9832.14	10142.32
Year	-0.05455	2.224135	-0.02452	0.98097	-5.08589	4.976798

SUMMARY OUTPUT CDDs Estcourt 1980–1990

Regression Statistics

Multiple R	0.036583
R Square	0.001338
Adjusted R Square	−0.10962
Standard Error	19.09984
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	4.4	4.4	0.012061	0.914959
Residual	9	3283.236	364.804		
Total	10	3287.636			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	−335.818	3614.885	−0.0929	0.928019	−8513.26	7841.621
Year	0.2	1.821099	0.109824	0.914959	−3.91961	4.319611

SUMMARY OUTPUT CDDS Cape St Lucia 1994–2004

Regression Statistics

Multiple R	0.282351
R Square	0.079722
Adjusted R Square	−0.02253
Standard Error	7.126845
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	39.6	39.6	0.779652	0.400218
Residual	9	457.1273	50.79192		
Total	10	496.7273			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	−1175.95	1358.358	−0.86571	0.409132	−4248.77	1896.874
Year	0.6	0.679518	0.882979	0.400218	−0.93718	2.137177

SUMMARY OUTPUT CDDs Cedara 1994–2004

Regression Statistics

Multiple R	0.412829
R Square	0.170428
Adjusted R Square	0.078254
Standard Error	15.98724
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	472.5818	472.5818	1.84897	0.20699
Residual	9	2300.327	255.5919		
Total	10	2772.909			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-4098.47	3047.127	-1.34503	0.211526	-10991.6	2794.607
Year	2.072727	1.524324	1.359768	0.20699	-1.37553	5.520987

SUMMARY OUTPUT CDDs Estcourt 1994–2004

Regression Statistics

Multiple R	0.523644
R Square	0.274203
Adjusted R Square	0.193559
Standard Error	13.39226
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	609.8273	609.8273	3.40016	0.098292
Residual	9	1614.173	179.3525		
Total	10	2224			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	4753.736	2552.529	1.862363	0.095453	−1020.49	10527.96
Year	−2.35455	1.276902	−1.84395	0.098292	−5.2431	0.534006

SUMMARY OUTPUT CDDs Ceadara 2005–2017

Regression Statistics

Multiple R	0.398318
R Square	0.158657
Adjusted R Square	0.082171
Standard Error	12.96957
Observations	13

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	348.9231	348.9231	2.074333	0.177645
Residual	11	1850.308	168.2098		
Total	12	2199.231			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-2740.92	1933.316	-1.41773	0.183969	-6996.12	1514.276
Year	1.384615	0.961369	1.440254	0.177645	-0.73134	3.500573

SUMMARY OUTPUT CDDs Estcourt 2005–2017

Regression Statistics

Multiple R	0.483034
R Square	0.233322
Adjusted R Square	0.163624
Standard Error	24.47001
Observations	13

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	2004.484	2004.484	3.347606	0.094512
Residual	11	6586.593	598.7812		
Total	12	8591.077			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-6619.25	3647.634	-1.81467	0.096912	-14647.6	1409.135
Year	3.318681	1.813838	1.829646	0.094512	-0.67355	7.310911

CWDs

SUMMARY OUTPUT CWDs Cape St Lucia 1989–1990*Regression Statistics*

Multiple R	0.04938648
R Square	0.00243902
Adjusted R Square	−0.1084011
Standard Error	1.28550584
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.03636364	0.03636364	0.02200489	0.88534452
Residual	9	14.8727273	1.65252525		
Total	10	14.9090909			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	−30.181818	243.298131	−0.1240528	0.90399988	−580.56043	520.196791
Year	0.01818182	0.12256817	0.14834045	0.88534452	−0.2590867	0.29545029

SUMMARY OUTPUT CWDs Cedara 1980–1990

Regression Statistics

Multiple R	0.39610981
R Square	0.15690299
Adjusted R Square	0.06322554
Standard Error	2.13650333
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	7.64545455	7.64545455	1.67492808	0.2278203
Residual	9	41.0818182	4.56464646		
Total	10	48.7272727			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-516.77273	404.360098	-1.2780013	0.23322486	-1431.4988	397.953364
Year	0.26363636	0.2037076	1.29419013	0.2278203	-0.1971822	0.72445497

SUMMARY OUTPUT CWDs Estcourt 1980–1990

Regression Statistics

Multiple R	0.16230861
R Square	0.02634409
Adjusted R Square	−0.0818399
Standard Error	1.35251356
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.44545455	0.44545455	0.24351187	0.63349854
Residual	9	16.4636364	1.82929293		
Total	10	16.9090909			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	−121.22727	255.980184	−0.4735807	0.64707571	−700.29468	457.840135
Year	0.06363636	0.12895711	0.49346922	0.63349854	−0.2280849	0.35535761

SUMMARY OUTPUT CWDs Cape St Lucia 1994-

Regression Statistics

Multiple R	0.45818979
R Square	0.20993789
Adjusted R Square	0.01242236
Standard Error	1.50712593
Observations	6

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	2.41428571	2.41428571	1.06289308	0.36081101
Residual	4	9.08571429	2.27142857		
Total	5	11.5			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	748.057143	719.283323	1.04000346	0.35706809	-1248.9935	2745.10781
Year	-0.3714286	0.36027201	-1.0309671	0.36081101	-1.371704	0.62884688

SUMMARY OUTPUT CWDs Cedara 1994–2004*Regression Statistics*

Multiple R	0.66092222
R Square	0.43681818
Adjusted R Square	0.37424242
Standard Error	1.11871138
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	8.73636364	8.73636364	6.98062954	0.02682181
Residual	9	11.2636364	1.25151515		
Total	10	20			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>
Intercept	569.354545	213.223492	2.67022428	0.02561304	87.0094966	1051.69959	87.0094966
Year	-0.2818182	0.10666494	-2.6420881	0.02682181	-0.5231111	-0.0405253	-0.5231111

SUMMARY OUTPUT CWDs Estcourt 1994–2004

Regression Statistics

Multiple R	0.47915742
R Square	0.22959184
Adjusted R Square	0.14399093
Standard Error	1.74656951
Observations	11

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	8.18181818	8.18181818	2.68211921	0.13590573
Residual	9	27.4545455	3.05050505		
Total	10	35.6363636			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	551	332.891625	1.65519334	0.13226977	-202.05317	1304.05317
Year	-0.2727273	0.16652887	-1.6377177	0.13590573	-0.6494417	0.1039872

SUMMARY OUTPUT Cedara CWDs 2005–2017*Regression Statistics*

Multiple R	0.05111986
R Square	0.00261324
Adjusted R Square	-0.0880583
Standard Error	1.30987947
Observations	13

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.04945055	0.04945055	0.02882096	0.86827501
Residual	11	18.8736264	1.71578422		
Total	12	18.9230769			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
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Intercept	38.2252747	195.257832	0.1957682	0.84836109	-391.53432	467.984865
Year	-0.0164835	0.09709473	-0.1697674	0.86827501	-0.2301876	0.19722053

SUMMARY OUTPUT CWDs Estcourt 2005–2017*Regression Statistics*

Multiple R	0.59206341
R Square	0.35053908
Adjusted R Square	0.29149718
Standard Error	1.55148088
Observations	13

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	14.2912088	14.2912088	5.93712388	0.0330199
Residual	11	26.478022	2.40709291		
Total	12	40.7692308			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
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Intercept	568.82967	231.272266	2.45956716	0.03170309	59.8028458	1077.85649
Year	-0.2802198	0.11500341	-2.4366214	0.0330199	-0.5333406	-0.027099

R20

SUMMARY OUTPUT R20 Cape St Lucia 1980–2006

Regression Statistics

Multiple R	0.11518678
R Square	0.01326799
Adjusted R Square	-0.0262013
Standard Error	5.58266183
Observations	27

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	10.476801	10.476801	0.33616001	0.56724316
Residual	25	779.152829	31.1661131		
Total	26	789.62963			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-141.68763	274.912817	-0.5153911	0.61080748	-707.88117	424.505918
Year	0.07997558	0.13793814	0.57979308	0.56724316	-0.2041133	0.3640645

SUMMARY OUTPUT R20 Cedara 1980–2017

<i>Regression Statistics</i>						
Multiple R	0.22288607					
R Square	0.0496782					
Adjusted R Square	0.02328037					
Standard Error	3.3213722					
Observations	38					
<i>ANOVA</i>						
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>	
Regression	1	20.7602582	20.7602582	1.88190484	0.17860707	
Residual	36	397.134479	11.0315133			
Total	37	417.894737				
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	144.653135	98.1960223	1.47310585	0.14941289	-54.497629	343.803899
Year	-0.0674034	0.04913412	-1.3718254	0.17860707	-0.1670521	0.03224518

SUMMARY OUTPUT R20 Estcourt 1980–2012

<i>Regression Statistics</i>						
Multiple R	0.2660095					
R Square	0.07076106					
Adjusted R Square	0.04078561					
Standard Error	2.91521769					
Observations	33					
<i>ANOVA</i>						
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>	
Regression	1	20.0618316	20.0618316	2.36063367	0.13457664	
Residual	31	263.45332	8.49849419			
Total	32	283.515152				
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-153.23039	106.378944	-1.4404203	0.15977271	-370.19168	63.7308946
Year	0.08188503	0.05329546	1.53643538	0.13457664	-0.0268118	0.19058183

No. of rainy days

SUMMARY OUTPUT No. of rainy days Cape St Lucia 1968–2004

Regression Statistics

Multiple R	0.53187448
R Square	0.28289046
Adjusted R Square	0.26240162
Standard Error	17.8182375
Observations	37

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	4383.59412	4383.59412	13.8070484	0.00070426
Residual	35	11112.1356	317.489589		
Total	36	15495.7297			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	2152.90612	544.875119	3.95119183	0.00035946	1046.75082	3259.06142
X- Year	-1.0194405	0.2743541	-3.7157837	0.00070426	-1.5764089	-0.4624721

SUMMARY OUTPUT No. of rainy days Cedara 1968–2017*Regression Statistics*

Multiple R	0.13401163
R Square	0.01795912
Adjusted R Square	−0.0025001
Standard Error	13.6029946
Observations	50

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	162.429796	162.429796	0.87780216	0.35349465
Residual	48	8881.9902	185.041463		
Total	49	9044.42			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	−101.39918	265.623649	−0.38174	0.70433897	−635.47133	432.672958
Year	0.12489796	0.13330825	0.93691097	0.35349465	−0.1431362	0.39293216

SUMMARY OUTPUT No. of rainy days Durban 1968–2017

<i>Regression Statistics</i>						
Multiple R	0.00994431					
R Square	9.8889× 10 ⁻⁵					
Adjusted R Square	-0.0207324					
Standard Error	15.0057705					
Observations	50					
<i>ANOVA</i>						
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>	
Regression	1	1.06893157	1.0689315	0.0047471	0.94535577	
Residual	48	10808.3111	225.17314			
Total	49	10809.38				
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	110.631885	293.015444	0.3775633	0.7074194	-478.51515	699.77892
Year	0.01013205	0.14705534	0.0688995	0.9453557	-0.2855425	0.3058066

SUMMARY OUTPUT No. of rainy days Estcourt 1968–2017

<i>Regression Statistics</i>						
Multiple R	0.43440424					
R Square	0.18870704					
Adjusted R Square	0.1718051					
Standard Error	19.277926					
Observations	50					
<i>ANOVA</i>						
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>	
Regression	1	4149.27529	4149.27529	11.164817	0.0016209	
Residual	48	17838.6447	371.638431			
Total	49	21987.92				
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-1156.8266	376.437189	-3.0730932	0.0034872	-1913.7043	-399.94886
Year	0.6312605	0.18892212	3.34137959	0.0016209	0.25140713	1.01111388

SUMMARY OUTPUT No. of rainy days Ladysmith 1994–2017

Regression Statistics

Multiple R	0.08358216
R Square	0.00698598
Adjusted R Square	-0.0403004
Standard Error	14.2302792
Observations	23

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	29.916996	29.916996	0.14773763	0.70457144
Residual	21	4252.51779	202.500847		
Total	22	4282.43478			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	-253.47233	896.891523	-0.282612	0.78024108	-2118.6604	1611.7157
Year	0.17193676	0.447325	0.38436654	0.70457144	-0.7583265	1.10220001

SUMMARY OUTPUT No. of rainy days Newcastle 1984–2017

Regression Statistics

Multiple R	0.565315619
R Square	0.319581749
Adjusted R Square	0.298318679
Standard Error	14.2349766
Observations	34

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	3045.57647	3045.57647	15.0298966	0.00049439
Residual	32	6484.30588	202.634559		
Total	33	9529.88235			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	2009.952941	497.806666	4.03761757	0.00031507	995.953944	3023.95194
X – Year	–0.964705882	0.24883813	–3.8768411	0.00049439	–1.4715726	–0.4578392
