Supplementary material

Figures S1~S4 is the NDVI-LST feature space of each quarter.

Table S1 is the correlation coefficient and significance table of each quarter

Tables S2~S4 Statistical data of environmental indices in different seasons and buffer zones

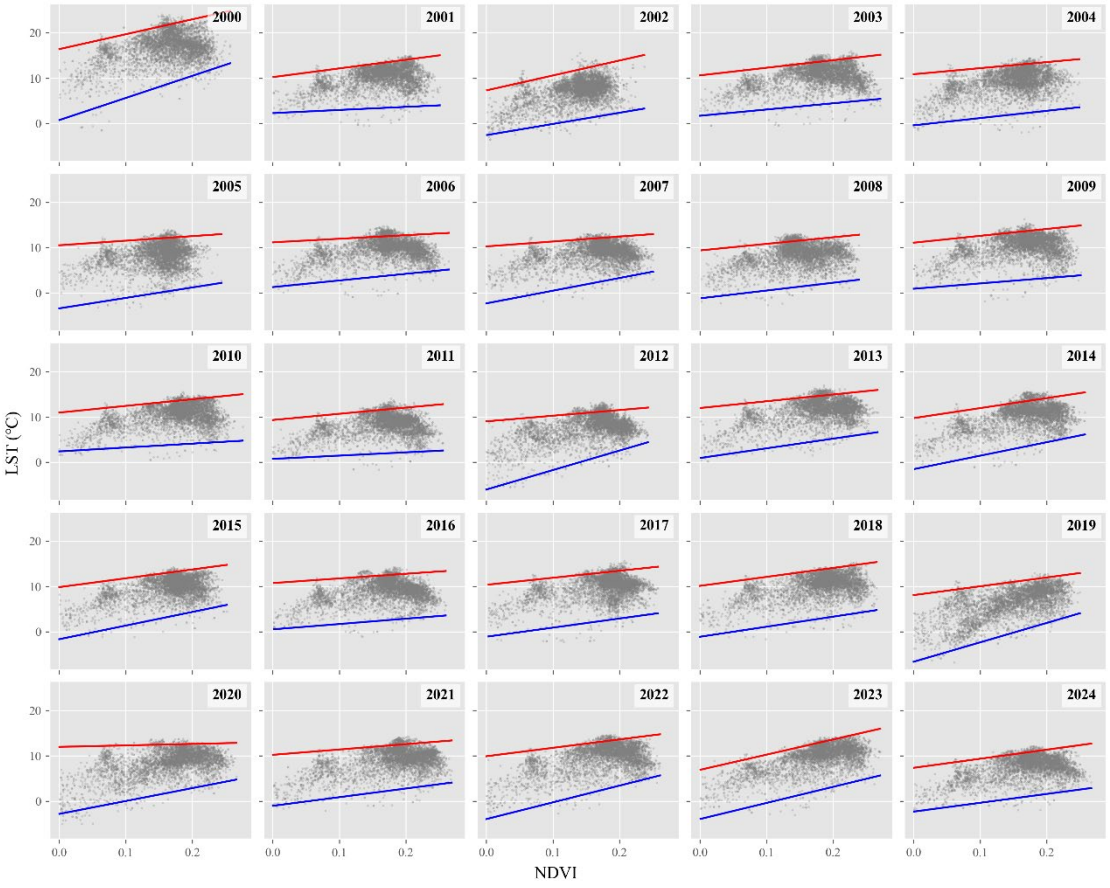


Figure S1 The NDVI- LST space of Q1

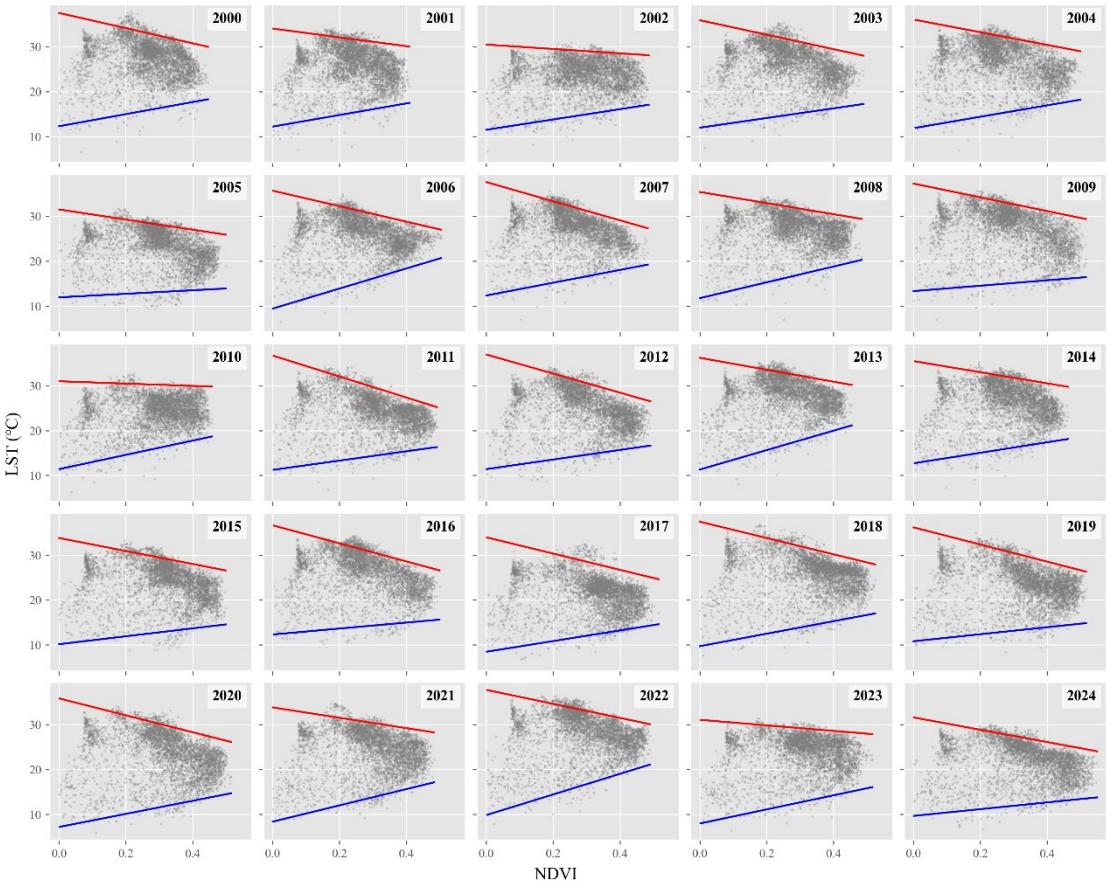


Figure S2 The NDVI- LST space of Q2

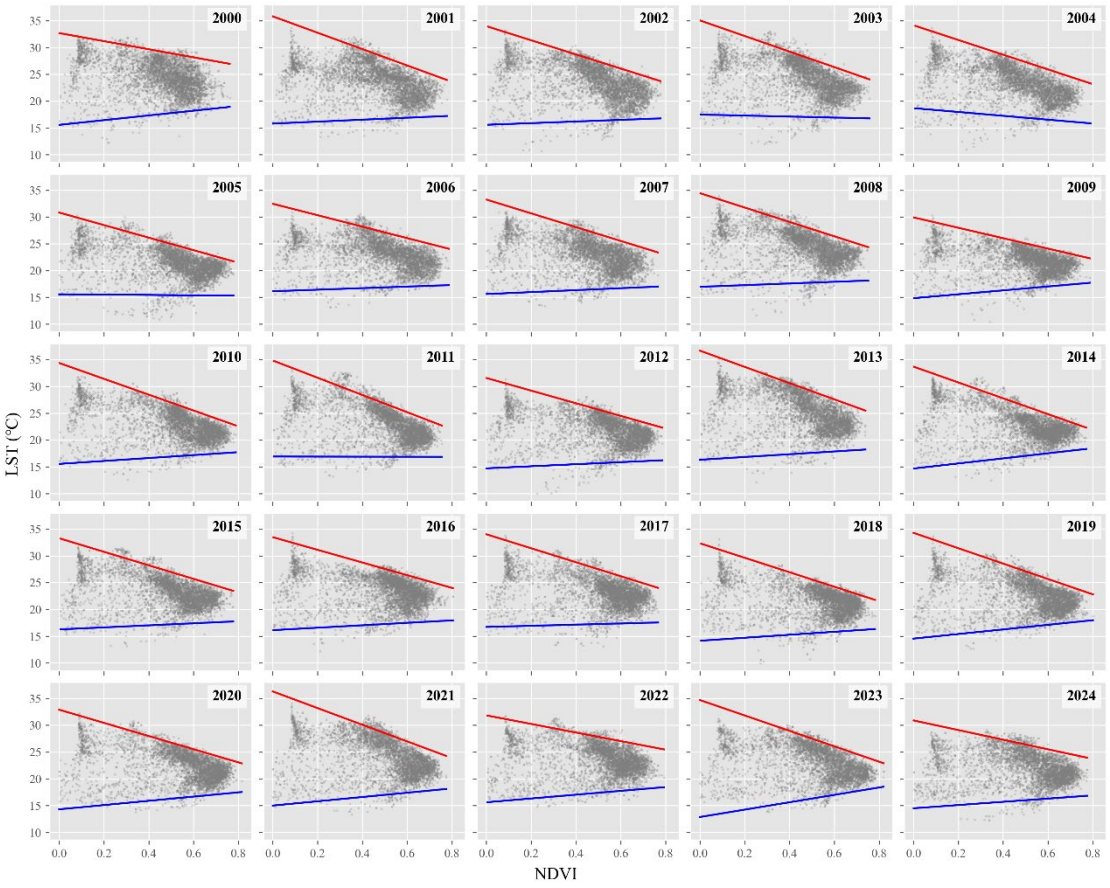


Figure S3 The NDVI- LST space of Q3

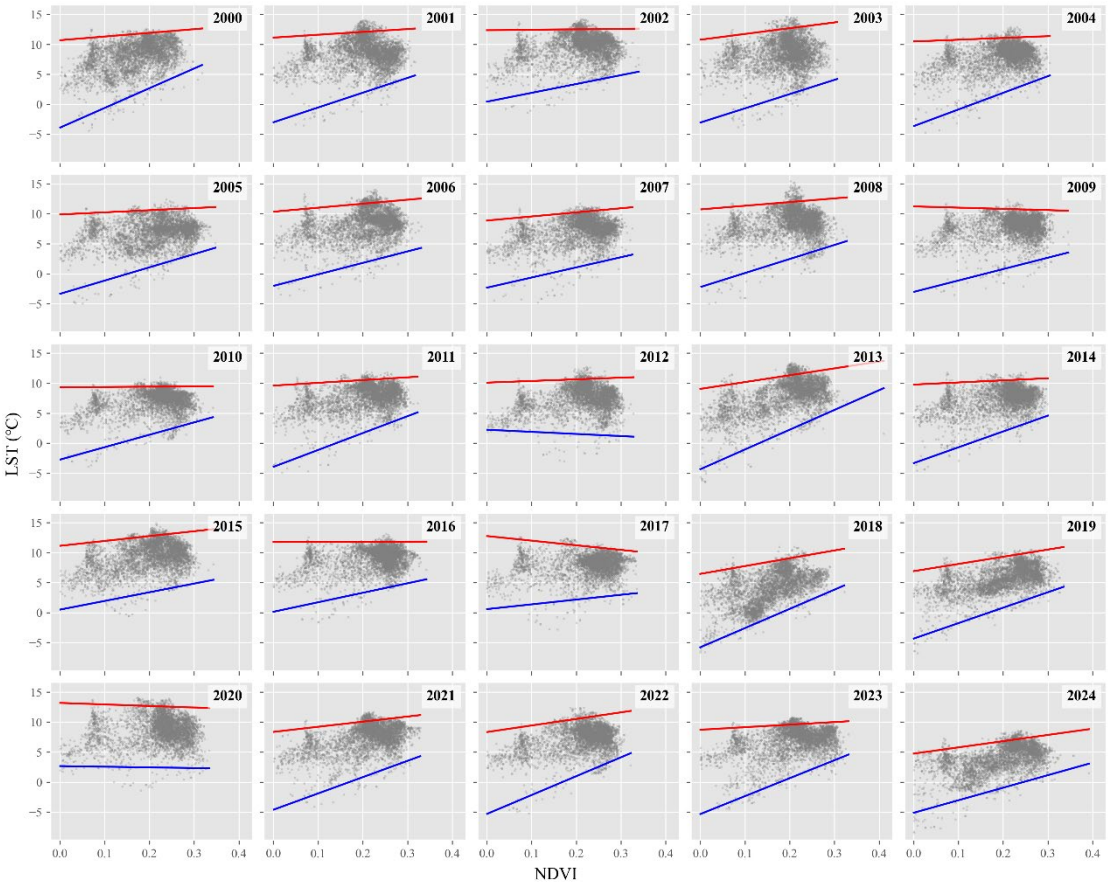


Figure S4 The NDVI- LST space of Q4

Table S1 The Correlation Coefficient and Significance Table

Variable_X	Variable_Y	Quarter	R_value	P_value
NDVI_Mean	LST_Mean	Q1	0.12	0.554
NDVI_Mean	LST_Mean	Q2	0.63	0.001
NDVI_Mean	LST_Mean	Q3	0.05	0.830
NDVI_Mean	LST_Mean	Q4	0.46	0.020
NDVI_Mean	TVDI_Mean	Q1	0.32	0.117
NDVI_Mean	TVDI_Mean	Q2	0.44	0.027
NDVI_Mean	TVDI_Mean	Q3	-0.69	0.000
NDVI_Mean	TVDI_Mean	Q4	-0.38	0.059
LST_Mean	TVDI_Mean	Q1	-0.71	0.000
LST_Mean	TVDI_Mean	Q2	-0.08	0.712
LST_Mean	TVDI_Mean	Q3	0.39	0.052
LST_Mean	TVDI_Mean	Q4	0.49	0.013

Table S1 LST

Quarter	Distance	Mean	Median	Std	Skewness	Kurtosis
Q1	0-2km	7.83	8.45	2.49	-1.21	1.68
Q1	2-4km	9.95	10.12	1.39	-1.06	1.88
Q1	4-6km	10.01	10.44	1.98	-2.31	8.70
Q1	6-8km	9.94	10.70	2.80	-2.28	6.61
Q1	8-10km	9.97	10.85	2.69	-1.67	3.47
Q2	0-2km	23.78	24.21	3.40	-0.60	0.40
Q2	2-4km	26.81	26.58	2.19	-0.02	-0.29
Q2	4-6km	26.53	26.88	3.03	-1.02	1.27
Q2	6-8km	25.81	27.06	4.08	-1.14	1.17
Q2	8-10km	25.40	26.80	4.45	-0.81	0.02
Q3	0-2km	22.95	22.67	2.32	0.52	0.71
Q3	2-4km	24.15	23.77	2.47	0.38	-0.42
Q3	4-6km	23.60	23.58	2.73	0.02	-0.68
Q3	6-8km	22.95	23.11	3.04	-0.32	-0.59
Q3	8-10km	22.60	23.08	3.15	-0.48	-0.39
Q4	0-2km	6.96	7.01	1.40	-0.32	0.05
Q4	2-4km	8.12	8.30	1.22	-0.58	0.45
Q4	4-6km	7.97	8.35	1.68	-1.23	1.47
Q4	6-8km	7.70	8.14	2.30	-1.52	2.52
Q4	8-10km	7.52	8.09	2.59	-1.55	3.29

Table S2 NDVI

Quarter	Distance	Mean	Median	Std	Skewness	Kurtosis
Q1	0-2km	0.14	0.16	0.06	-1.28	1.30
Q1	2-4km	0.16	0.17	0.04	-1.36	1.44
Q1	4-6km	0.17	0.17	0.05	-2.49	8.51
Q1	6-8km	0.17	0.17	0.06	-3.00	11.38
Q1	8-10km	0.17	0.18	0.04	-2.15	9.18
Q2	0-2km	0.28	0.31	0.10	-0.72	-0.49
Q2	2-4km	0.29	0.31	0.10	-0.70	-0.26
Q2	4-6km	0.30	0.30	0.11	-0.90	0.86
Q2	6-8km	0.30	0.30	0.11	-1.04	1.42
Q2	8-10km	0.31	0.31	0.09	-0.47	-0.31
Q3	0-2km	0.48	0.54	0.19	-0.91	-0.31
Q3	2-4km	0.50	0.57	0.18	-1.16	0.34
Q3	4-6km	0.50	0.55	0.17	-1.43	1.39
Q3	6-8km	0.51	0.53	0.16	-1.39	1.61
Q3	8-10km	0.51	0.53	0.13	-1.13	1.07
Q4	0-2km	0.19	0.22	0.07	-1.11	0.28
Q4	2-4km	0.21	0.22	0.06	-1.36	1.11
Q4	4-6km	0.20	0.22	0.06	-2.37	7.15
Q4	6-8km	0.20	0.22	0.07	-2.85	10.35
Q4	8-10km	0.21	0.22	0.05	-1.41	2.65

Table S3 TVDI

Quarter	Distance	Mean	Median	Std	Skewness	Kurtosis
Q1	0-2km	0.55	0.58	0.17	-0.58	0.35
Q1	2-4km	0.71	0.71	0.12	-0.50	0.63
Q1	4-6km	0.71	0.74	0.17	-1.30	1.79
Q1	6-8km	0.71	0.77	0.20	-1.37	1.75
Q1	8-10km	0.70	0.77	0.23	-1.08	0.46
Q2	0-2km	0.57	0.60	0.19	-0.56	-0.21
Q2	2-4km	0.75	0.76	0.11	-0.50	-0.03
Q2	4-6km	0.73	0.77	0.17	-1.24	1.00
Q2	6-8km	0.69	0.76	0.23	-1.17	0.57
Q2	8-10km	0.66	0.74	0.26	-0.87	-0.25
Q3	0-2km	0.59	0.60	0.18	-0.54	-0.05
Q3	2-4km	0.70	0.73	0.15	-0.74	0.07
Q3	4-6km	0.65	0.70	0.21	-0.77	-0.26
Q3	6-8km	0.59	0.65	0.24	-0.71	-0.36
Q3	8-10km	0.57	0.63	0.26	-0.59	-0.74
Q4	0-2km	0.58	0.57	0.13	0.05	0.18
Q4	2-4km	0.69	0.71	0.14	-0.60	0.53

Q4	4-6km	0.68	0.72	0.18	-1.26	1.42
Q4	6-8km	0.66	0.71	0.22	-1.25	1.38
Q4	8-10km	0.64	0.69	0.24	-0.90	0.19