

*Supplementary information*

**ANALYZING LAND USE TYPES' EFFECTS ON LST USING THE GWR  
MODEL AND CASE STUDIES IN BEIJING**

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The following table reports remote sensor platform tools' conditions and place position in which the land surface temperature image in Figure 3 has been captured.

Table S1. Position of the Landsat, instruments, and place in which the image has been acquired

Name	Position
Landsat Product Identifier L1	LC08_L1TP_123032_20210619_20210628_02_T1
Landsat Scene Identifier	LC81230322021170LGN00
Date Acquired	2022/11/19
Collection Category	T1
Collection Number	2
WRS Path	123
WRS Row	032
Nadir/Off Nadir	NADIR
Roll Angle	0.000
Date Product Generated L1	2021/06/28
Land Cloud Cover	0.14
Scene Cloud Cover L1	0.14
Station Identifier	LGN
Day/Night Indicator	DAY
Ground Control Points Model	713
Ground Control Points Version	5
Geometric RMSE Model	5.774
Geometric RMSE Model X	4.097
Geometric RMSE Model Y	4.069
Image Quality	9
Processing Software Version	LPGS_15.5.0
Sun Elevation L0RA	65.97492626
Sun Azimuth L0RA	128.60338202
TIRS SSM Model	FINAL
Data Type L1	OLI_TIRS_L1TP
Sensor Identifier	OLI_TIRS

End of Table S1

Name	Position
Satellite	8
Panchromatic Lines	15781
Panchromatic Samples	15521
Reflective Lines	7891
Reflective Samples	7761
Thermal Lines	7891
Thermal Samples	7761
Product Map Projection L1	UTM
UTM Zone	50
Datum	WGS84
Ellipsoid	WGS84
Grid Cell Size Panchromatic	15.00
Grid Cell Size Reflective	30.00
Grid Cell Size Thermal	30.00
Bias Parameter File Name OLI	LO8BPF20210619023338_20210619030815.01
Bias Parameter File Name TIRS	LT8BPF20210617140512_20210625042652.01
Calibration Parameter File	LC08CPF_20210601_20210630_02.03
RLUT File Name	LC08RLUT_20150303_20431231_02_01.h5
Scene Center Lat DMS	40°19'57.40"N
Scene Center Long DMS	116°42'11.77"E
Corner Upper Left Lat DMS	41°22'53.54"N
Corner Upper Left Long DMS	115°18'14.98"E
Corner Upper Right Lat DMS	41°23'20"N
Corner Upper Right Long DMS	118°05'18.38"E
Corner Lower Left Lat DMS	39°14'59.78"N
Corner Lower Left Long DMS	115°21'24.05"E
Corner Lower Right Lat DMS	39°15'24.34"N
Corner Lower Right Long DMS	118°03'16.99"E
Scene Center Latitude	40.33261
Scene Center Longitude	116.70327
Corner Upper Left Latitude	41.38154
Corner Upper Left Longitude	115.30416
Corner Upper Right Latitude	41.38889
Corner Upper Right Longitude	118.08844
Corner Lower Left Latitude	39.24994
Corner Lower Left Longitude	115.35668
Corner Lower Right Latitude	39.25676
Corner Lower Right Longitude	118.05472