



## Supplement of

## The modulation of synoptic weather patterns and human activities on the diurnal cycle of the summertime canopy urban heat island in the Yangtze River Delta Urban Agglomeration, China

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Figure S1: Diurnal variations of CUHII in YRDUA under different SWPs (a-f).



Figure S2: Spatial patterns of CUHII in YRDUA during the day (a) and night (b) under different SWPs. The bar chart on the right represents the average CUHII under different SWPs.



Figure S3: Diurnal variations of WS in YRDUA under different SWPs (a-f).



Figure S4: Spatial patterns of WS in YRDUA during the day (a) and night (b) under different SWPs. The bar chart on the right represents the average WS under different SWPs.



Figure S5: Diurnal variations of RH in YRDUA under different SWPs (a-f).



Figure S6: Spatial patterns of RH in YRDUA during the day (a) and night (b) under different SWPs. The bar chart on the right represents the average RH under different SWPs.



Figure S7: Diurnal variations of BLH in YRDUA under different SWPs.



Figure S8: Spatial patterns of PLAND (a), LPI (b), NDVI (c), AHF (d), PM2.5 (e) and PM10 (f) in YRDUA from 2011 to 2020.