# ***Supplementary materials for***

**Declining diurnal temperature range in the North China Plain related to environmental changes**

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**Figure S1.** Spatial distribution of diurnal temperature range (DTR) in the NCP.

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**Figure S2.** Seasonal spatial distribution of the trends of diurnal temperature range (DTR) in the NCP during the period 1960 to 2014.



**Figure S3.** Time series of DTR in the NCP during the period 1960 to 2014.

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**Figure S4.** Annual and seasonal spatial distribution of correlation coefficient between total cloud cover and DTR in the NCP.

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**Figure S5.** Spatial distribution showing whether the ΔTmax (a) and ΔTmin (b) at a given station in the NCP between overcast and clear-sky conditions are statistically significant at the 95% confidence level (black dots) or not (red dots), according to the two-tailed Student's t-test. Red star represents the location of Beijing.

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**Figure S6.** Seasonal spatial relationship of the trend of DTR with trend of TCC across the 137 meteorological stations in the NCP. \*\* denotes that the correlations are significant at 95% confidence level, while those with no asterisk are not statistically significant.

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**Figure S7.** The spatial distribution of annual and seasonal mean correlation coefficient between sunshine duration and DTR in the NCP.