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Authors: Jingfu Cao, Mingcai Li, Min Wang, Mingming Xiong, Fanchao Meng



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Original article

## Effects of climate change on outdoor meteorological parameters for building energy-saving design in the different climate zones of China

Jingfu Cao<sup>1</sup>, Mingcai Li<sup>1</sup>, Min Wang<sup>2</sup>, MingmingXiong<sup>1</sup>, Fanchao Meng<sup>1</sup>

1. Tianjin Climate Center, Tianjin, 300074, China

2. Institute of Building Environment and Energy Efficiency, China Academy of Building Research, Beijing, 100013, China

Running title: climate change effect on outdoor meteorological parameters

Corresponding author address:

Mingcai Li, Tianjin Climate Center, No. 100 Qixiangtai Road, Hexi District, Tianjin, 300074, China

Tel/Fax: +86 22 23333553;

Email: [mingcaili\\_qhzx@163.com](mailto:mingcaili_qhzx@163.com)

**Abstract:** Meteorological parameters are the basis for building energy-saving design and operation of Heating, Ventilation and Air Conditioning systems (HVAC). In this study, changes in meteorological parameters of Harbin, Tianjin, Kunming, Shanghai, and Guangzhou, representing the five major climate zones of China, were analyzed to determine the effects of climate change on meteorological parameters. The results demonstrated that outdoor design temperatures for heating or air-conditioning significantly increased in all five climate zones. The increasing rate of design

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