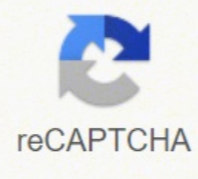


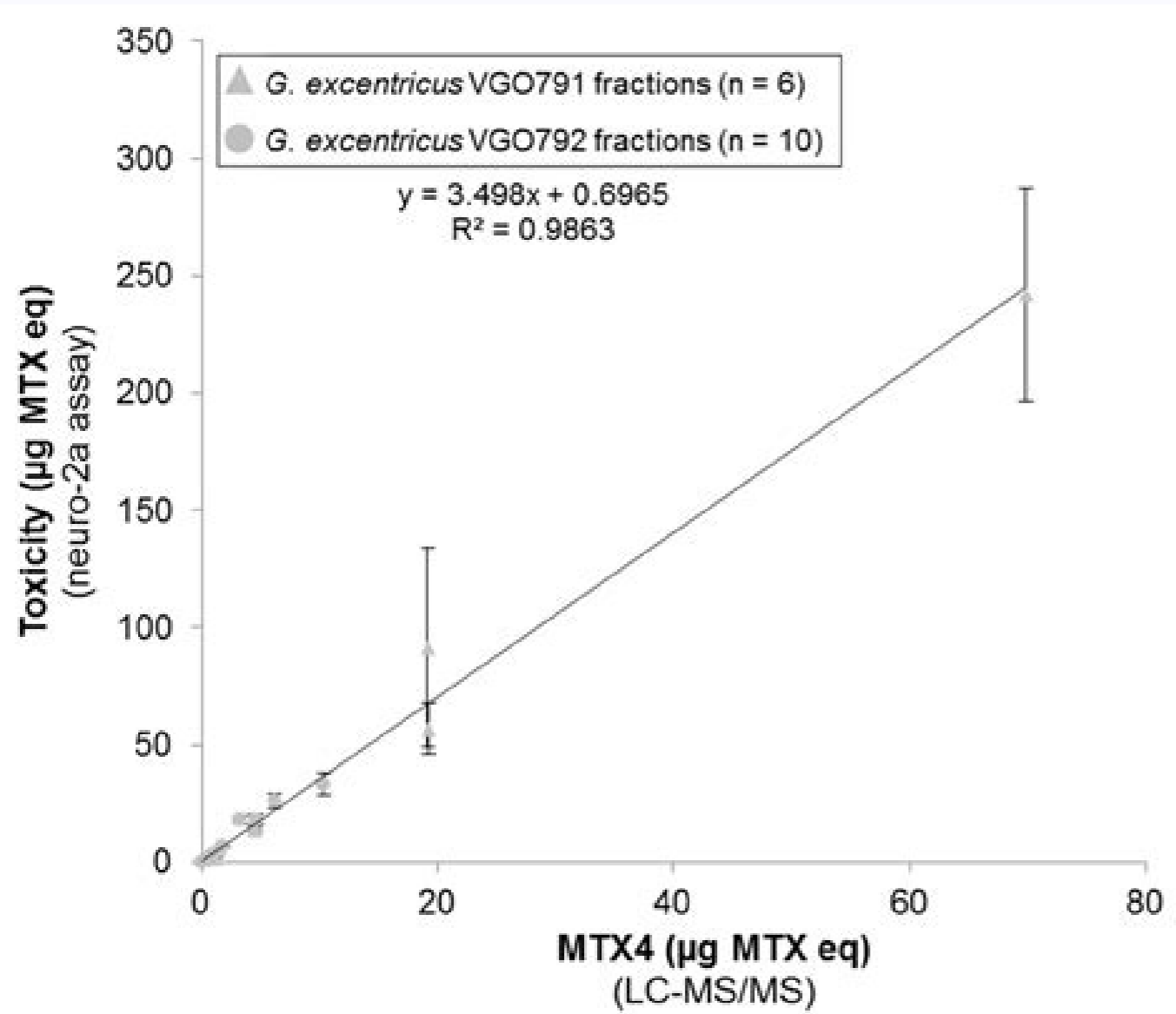
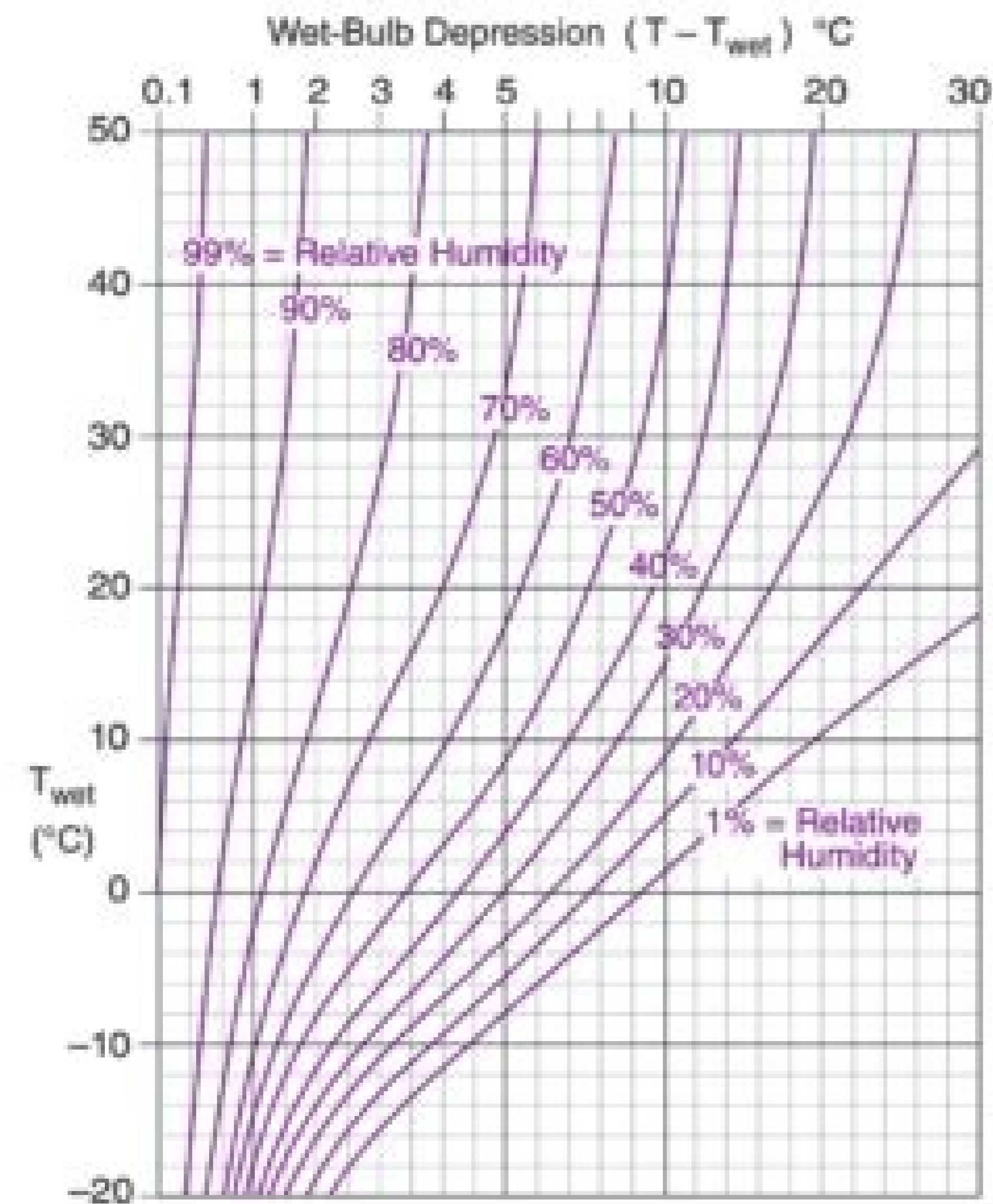


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**To what extent does urbanization and air pollution affect fog?**

Sheng Yao<sup>1,2,3</sup>, Bin Zhu<sup>1,2,3</sup>, Yang Huang<sup>1,2,3</sup>, Jun Zhu<sup>1,2,3</sup>, Hongqiang Kang<sup>1,2,3</sup>, Chuanming Lu<sup>1,2,3</sup>, and Yong Zhu<sup>1,2,3</sup>

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**Abstract.** The remarkable development of China has resulted in rapid urbanization and air pollution. Previous studies demonstrate that fog has become a serious environmental problem in China, but what are the causes of their reduction and control? In this study, a dense radiation fog event in eastern China in January 2017 was investigated by the Weather Research and Forecasting model coupled with Chemistry (WRF-Chem) and the observational and numerical effects of urbanization and air pollution. Results show that urbanization inhibits fog due to higher temperature and lower relative humidity. The fog is more likely to occur in the rural area due to higher relative humidity and lower temperature. In contrast, fog is more likely to occur in the urban area due to higher relative humidity and lower temperature. The fog is more likely to occur in the urban area due to higher relative humidity and lower temperature. The fog is more likely to occur in the urban area due to higher relative humidity and lower temperature.



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