Author's response to reviews

Title: Time Series Analysis of Dengue Fever and Weather in Guangzhou, China

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Author's response to reviews:

Dear Editor,

We appreciate very much the comments by the two reviewers.

The major concerns about our previous manuscript are:

1) The data analysis approach was not appropriate for controlling for autocorrelation in time-series data;
2) Weather variables alone are not sufficient for producing the projected maps of dengue focal zones in China.

In the revised manuscript, we replaced all the linear regression with time-series Poisson regression. The monthly dengue incidence was modeled using a generalized estimating equations (GEE) approach, with a Poisson distribution. This model enables both specification of an over-dispersion term and a first-order autoregressive structure.

We removed the projected maps of dengue focal zones in China. We acknowledged the lack of systematic mosquito data and the inadequacy of using just weather variables for dengue prediction.

We asked a native English speaker to proof read our revised manuscript.

Many thanks for your time in considering our work!

Sincerely,

Liang Lu