**College of Sciences**

### Department of Statistics

5109 SAS Hall

2311 Stinson Dr.

Raleigh, NC 27695

samorris@ncsu.edu

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Dear Biometrics Editors:

Please find the attached manuscript "A Space-time Skew-*t* Model for Threshold Exceedances" and the corresponding web-based supplementary materials, submitted for publication in the *Biometrics* as a biometric methodology paper.

In this paper we address an important topic in assessing compliance for air quality regulations, namely, predicting exceedances of a fixed threshold. The approach we use builds on a spatial skew-*t* process by incorporating random partitioning to allow for varying degrees of asymptotic dependence based on distance between sites and thresholding to allow the tails of the data to speak for themselves. Our method is applied to ozone data in the US, where we find improvements for predicting exceedances over Gaussian and more traditional max-stable methods for spatial extremes.

Thank you very much for your assistance! I look forward to hearing from you soon.

Sincerely,

Samuel A. Morris  
PhD Candidate, Statistics

North Carolina State University