

TITLE: Extreme weather and air pollution in Bangladesh: impacts on children's health

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Bangladesh is one of the most climate-vulnerable countries in the world, facing frequent extreme weather events such as monsoons, floods, and heatwaves, along with high levels of air pollution. In this study we will refine XGBoost models for satellite-derived exposure estimates of air quality and weather. We will couple these estimates with health data collected on over 800 children living in rural Bangladesh to explore associations between the environment and the development of respiratory infections.