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Supporting Information for

Numerical Analysis of Atmospheric Perturbations Induced by Large Wildfire Events

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Introduction

Supplemental figures provide an overview of the distribution of maximum fire-induced winds over each day around areas that have already burned, and minimum fire-induced geopotential height perturbations for the surface, 600 hPa, and 500 hPa levels. These figures were created from WRF-SFIRE simulations of the Thomas Fire.

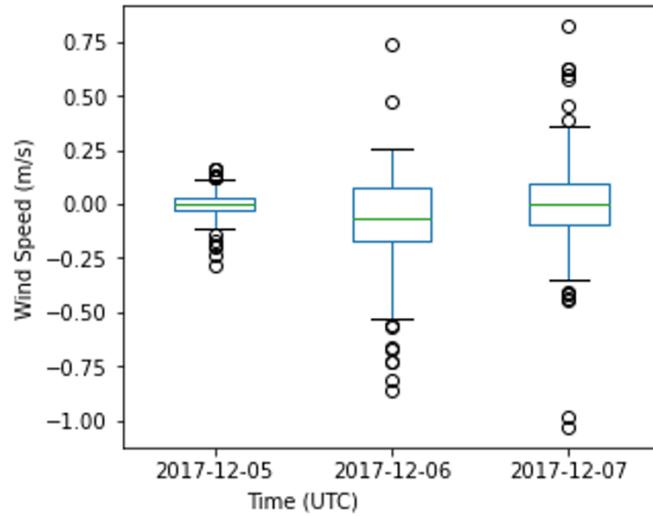


Figure S1. This boxplot shows the distribution of maximum fire-induced winds over each day around areas that have already burned in the Thomas Fire. The minimum and maximum values for the given day (excluding outliers) are represented by the lowest and highest lines, respectively. The box represents the 2nd and 3rd quartiles of the data, with the middle line representing the median of the data. Any outliers are represented by circles above or below the minimum and maximum value lines.

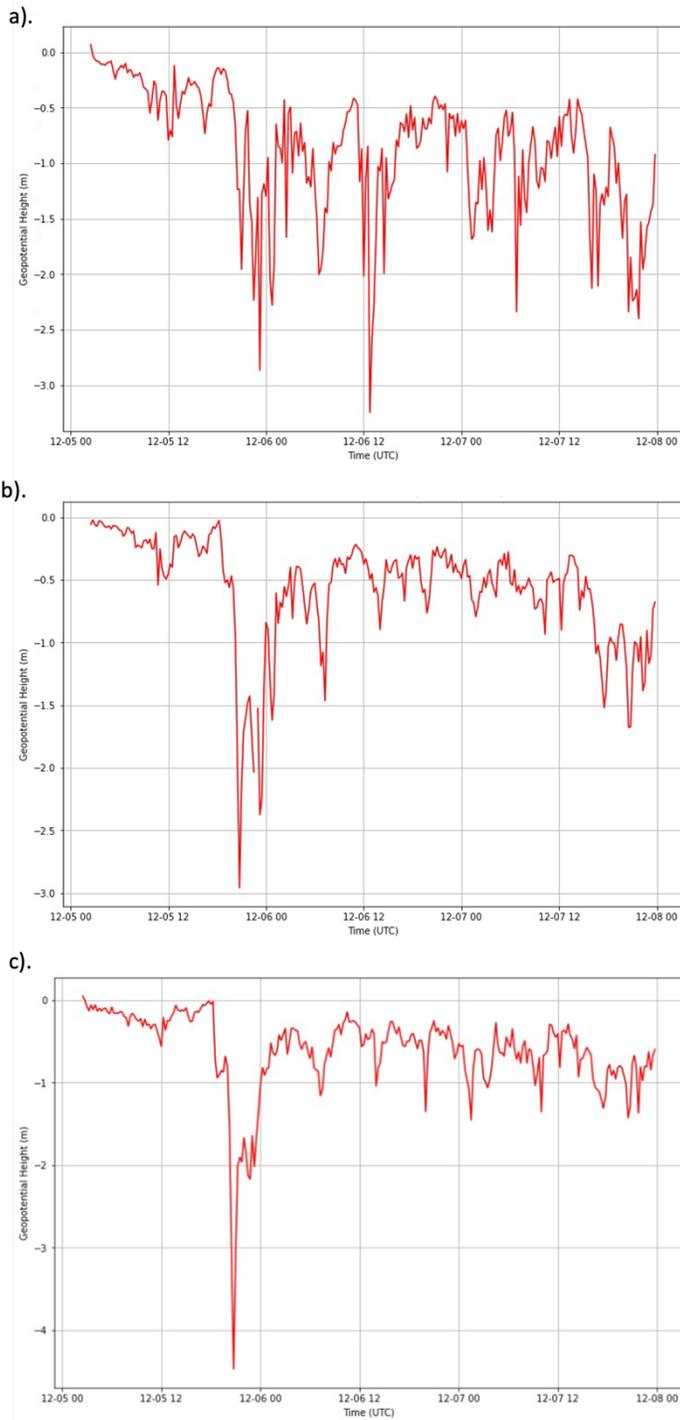


Figure S2. Minimum fire-induced geopotential height perturbations for the a) surface, b) 600 hPa, and c) 500 hPa pressure levels, over the regions of positive fire heat flux for the Thomas Fire.