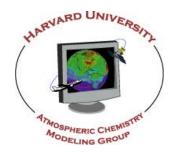
Isoprene emissions in Africa inferred from OMI HCHO

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D. Jacob, T. Kurosu, K. Chance, J. Murphy, C. Reeves, G. Mills,

S. Casadio, D. Millet, M. Barkley, F. Paulot, J. Mao





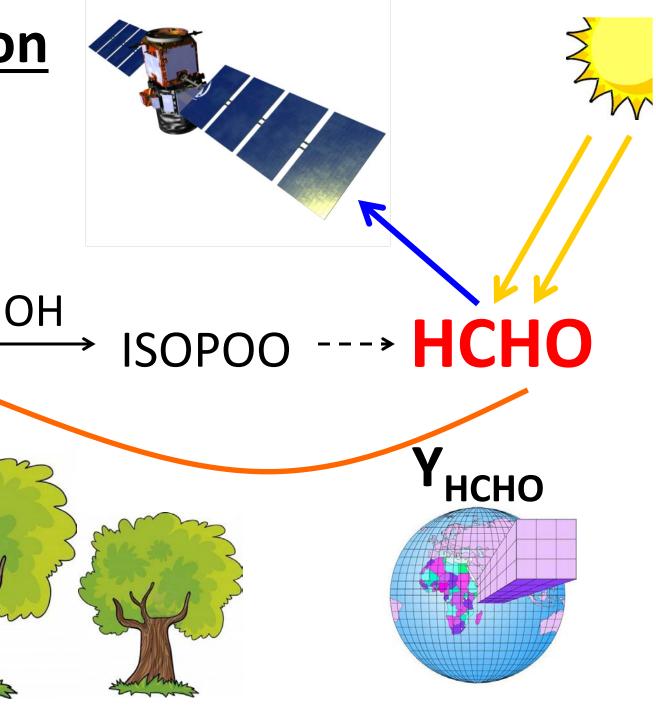


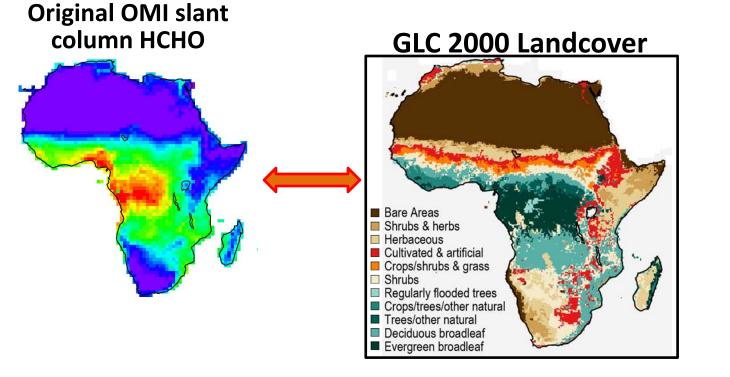


AMS Conference, Boston 29 May – 1 June 2012

Introduction

C₅**H**₈

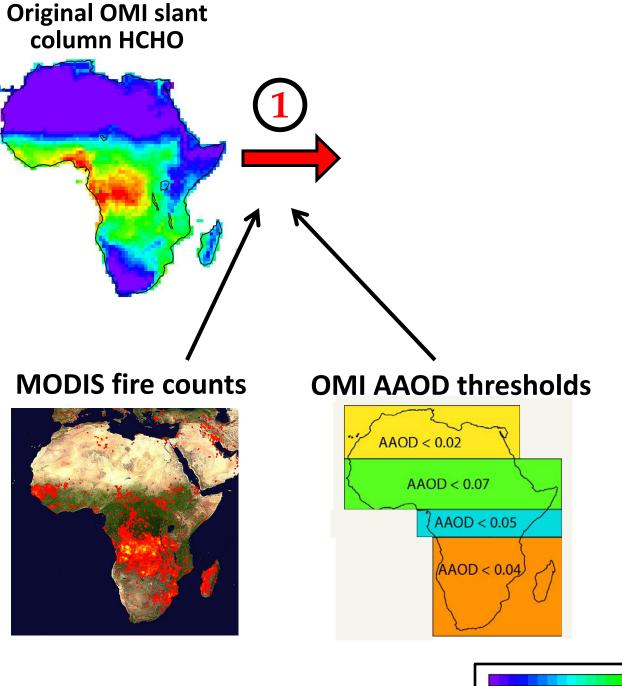




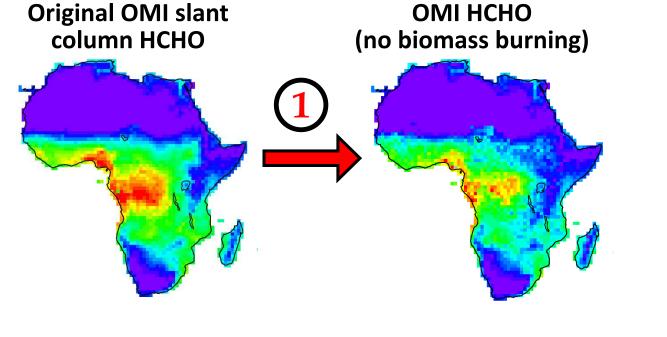
Steps One-Three:

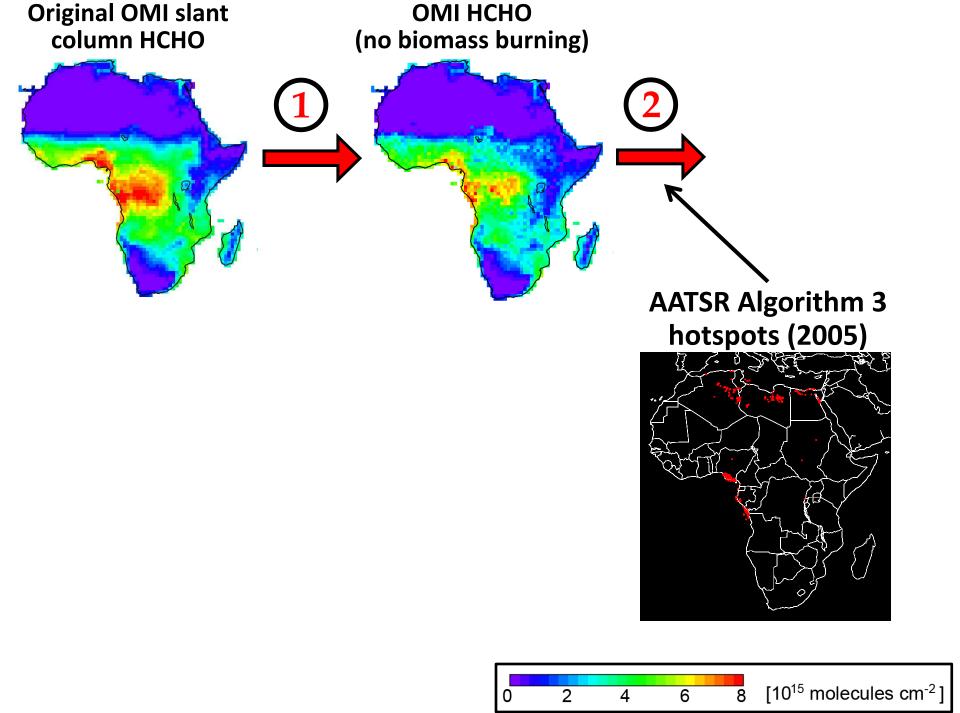
Filter for Biomass Burning and Anthropogenic Influences

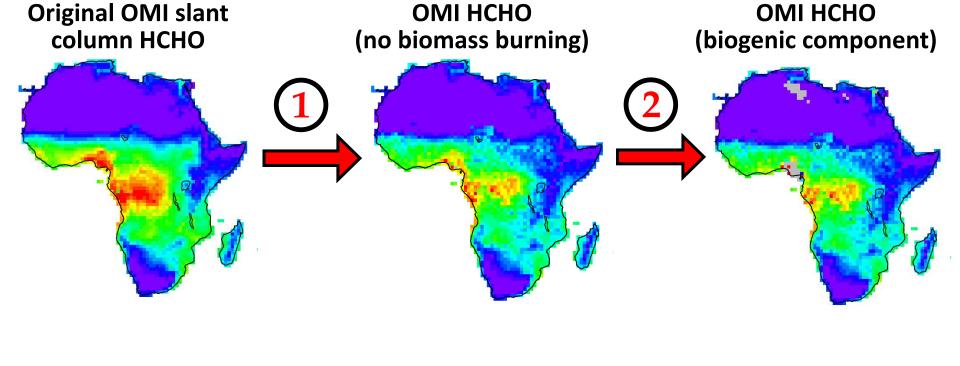


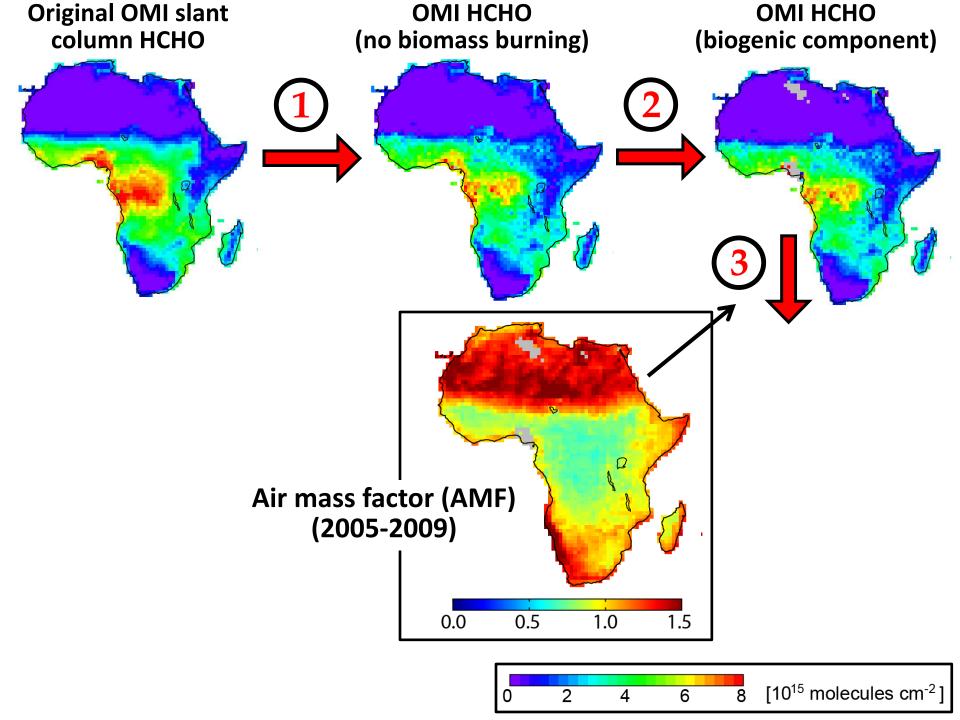


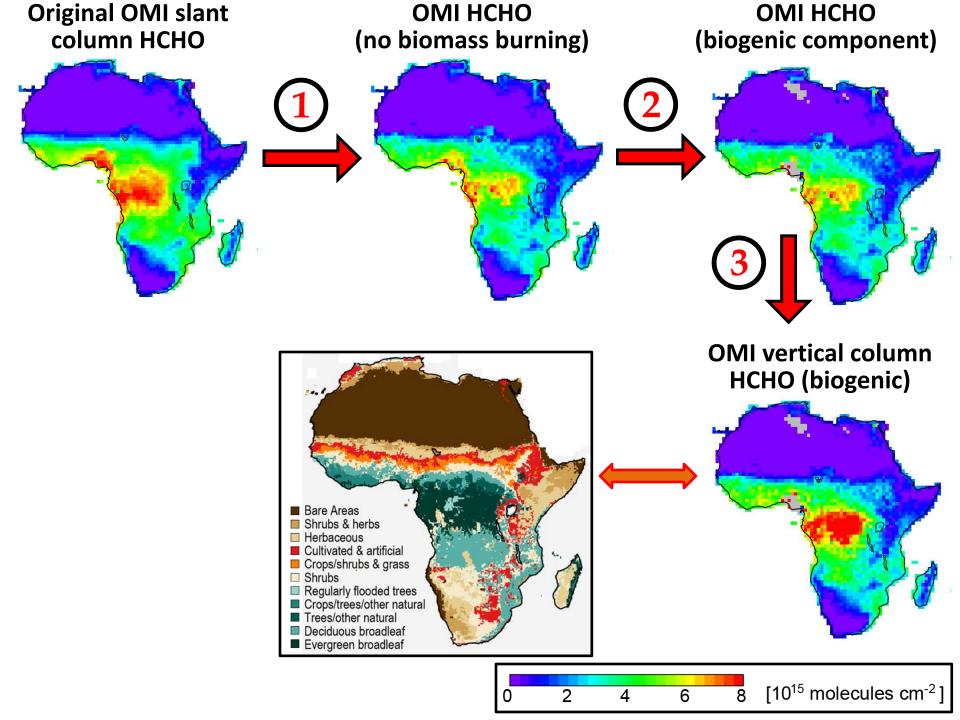






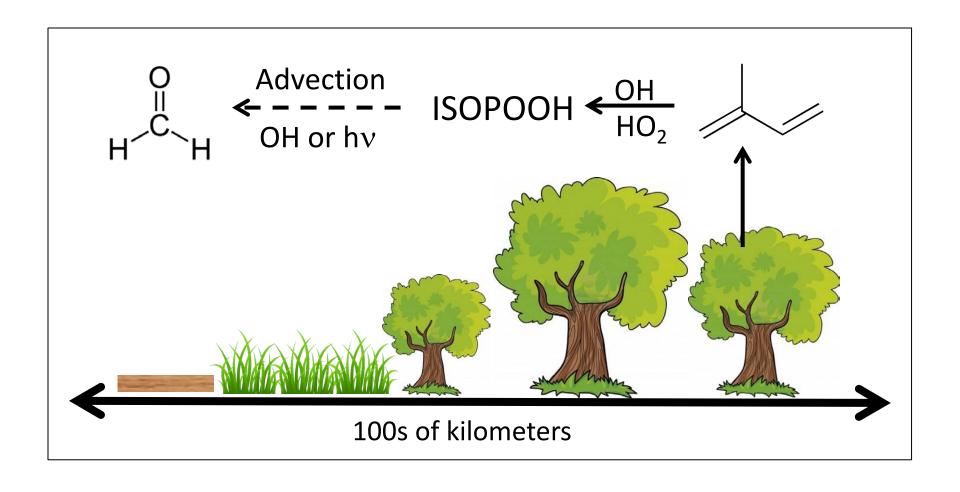




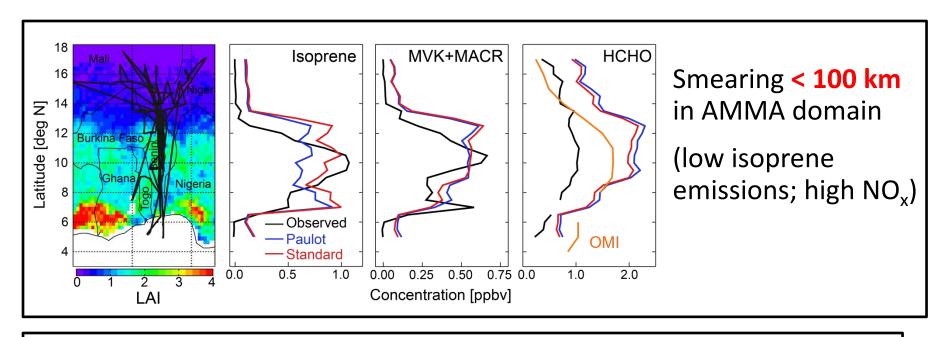


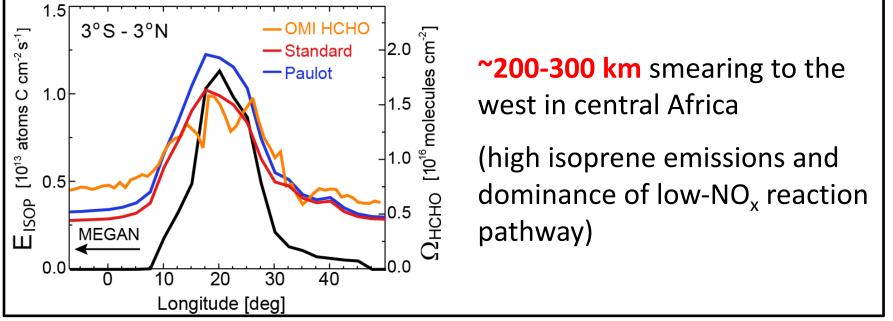
Step Four:

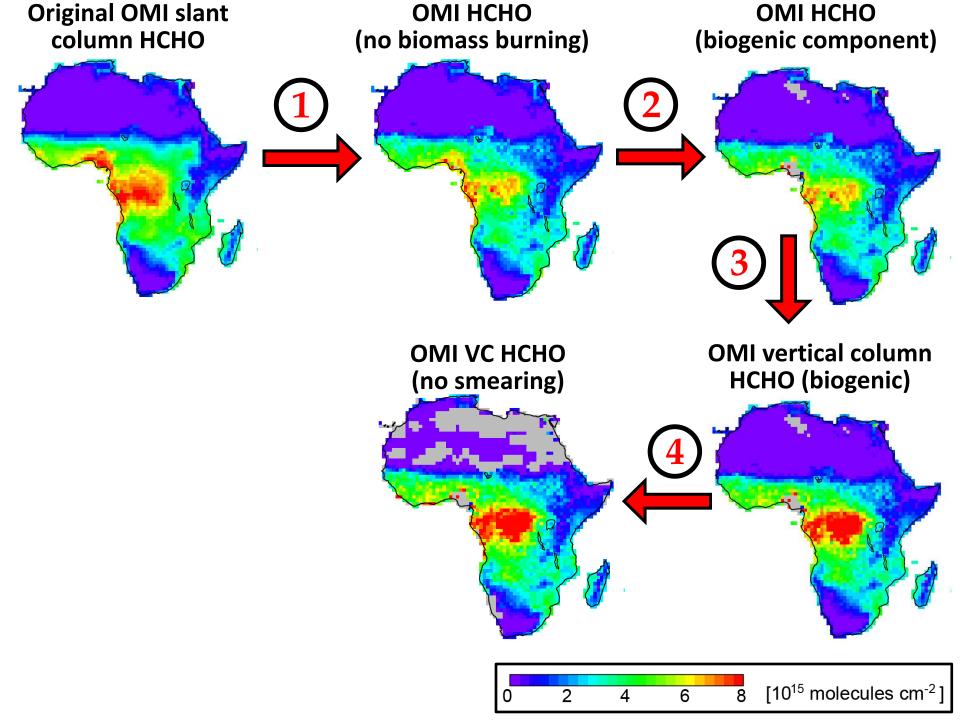
Remove the influence of smearing



Quantify HCHO smearing in Africa:

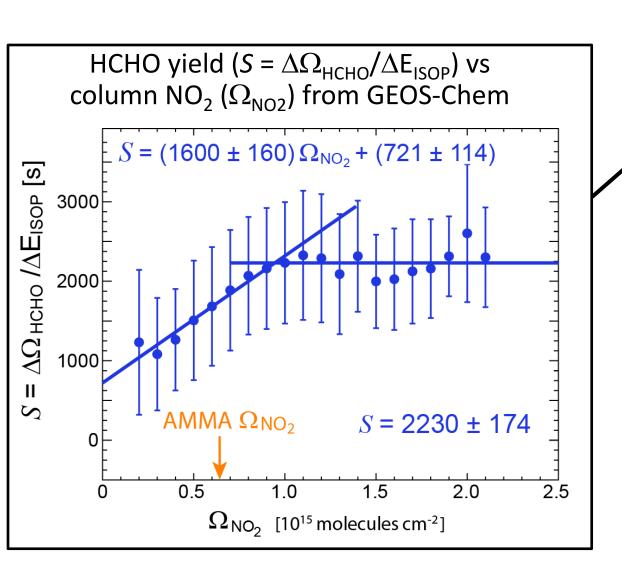


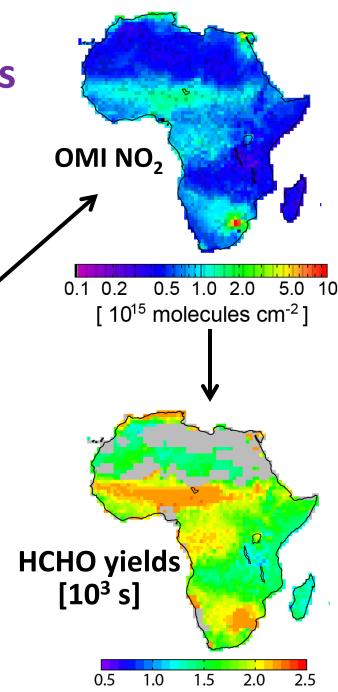


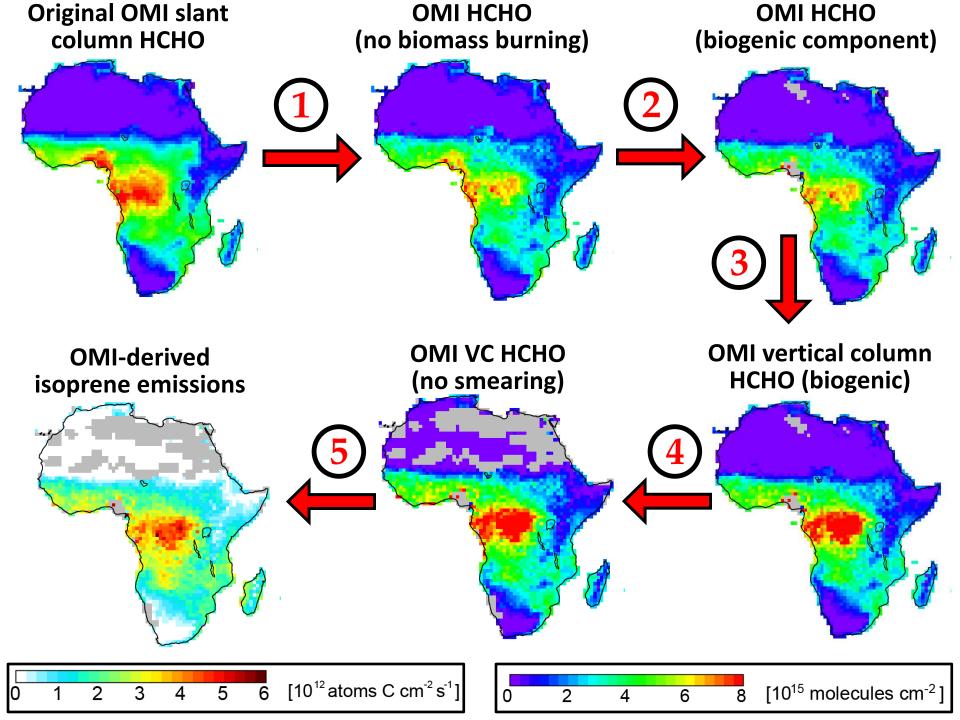


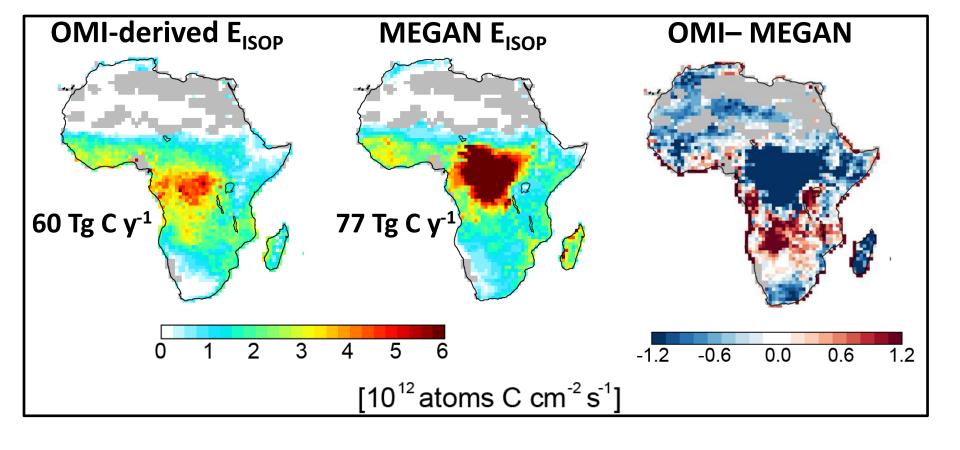
Step Five:

Estimate isoprene emissions









Future Directions

Use the OMI-derived isoprene emissions to understand seasonal and spatial variability of isoprene in Africa

Also assess the role of meteorological variables (such as temperature, soil moisture, LAI) on isoprene emissions in Africa