

Auxiliary Material for Paper 2012GL053417

Lee, J.-E., et al. (2012), Reduction of tropical land region precipitation variability via transpiration, *Geophys. Res. Lett.*, 39, L19704, doi:10.1029/2012GL053417.

Jung-Eun Lee

Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA

Benjamin R. Lintner

Department of Environmental Sciences, Rutgers, State University of New Jersey, New Brunswick, New Jersey, USA

J. David Neelin

Department of Atmospheric and Oceanic Sciences and
Institute of Geophysics and Planetary Physics, University of California, Los Angeles, California, USA

Xianan Jiang

Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA

Pierre Gentine

Department of Earth and Environmental Engineering, Columbia University, New York, New York, USA

C. Kevin Boyce

Department of Geophysical Sciences, University of Chicago, Chicago, Illinois, USA

Joshua B. Fisher

Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA

J. Taylor Perron

Department of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA

Terence L. Kubar

Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA

Jeonghoon Lee

Polar Research Institute, Incheon, South Korea

John Worden

Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA

Introduction

This auxiliary material contains four figures.

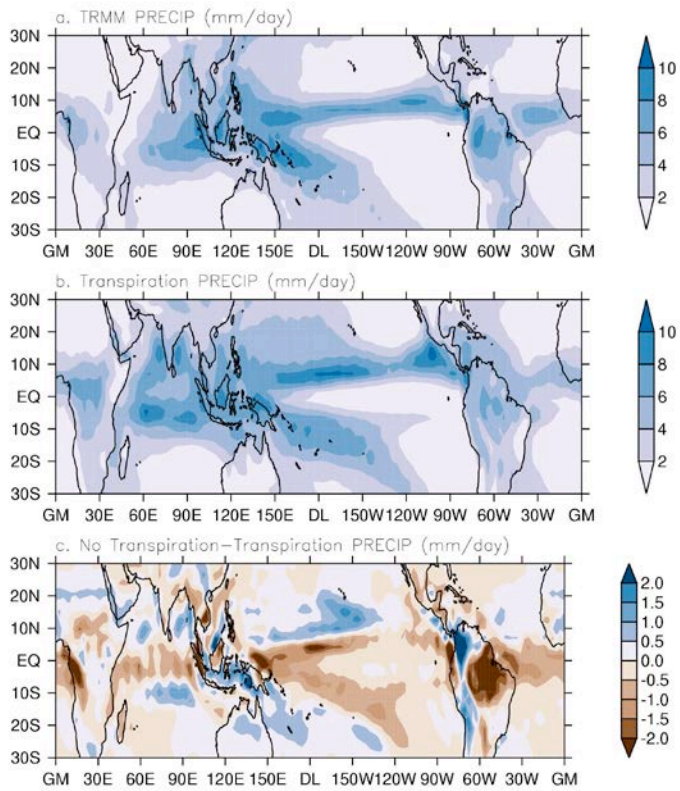


Figure S1. Mean annual precipitation from (a) TRMM measurements and (b) CAM3 simulation and (c) precipitation difference between the no transpiration and transpiration runs.

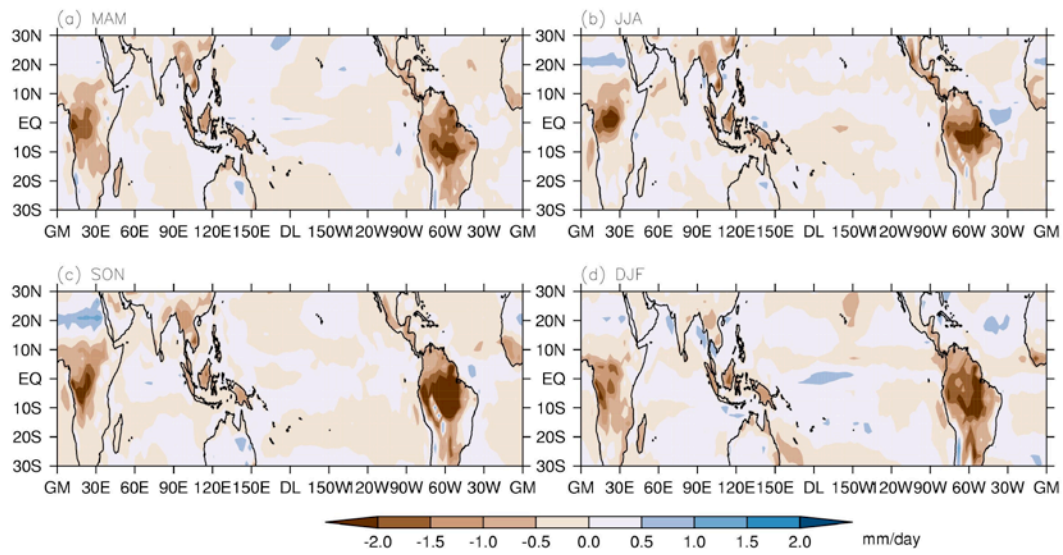


Figure S2. Mean seasonal difference of evapotranspiration for (a) March-April-May (MAM), (b) June-July-August (JJA), (c) September-October-December (SON), and (d) December-January-February (DJF) from the NCAR CAM between the runs without and with plants.

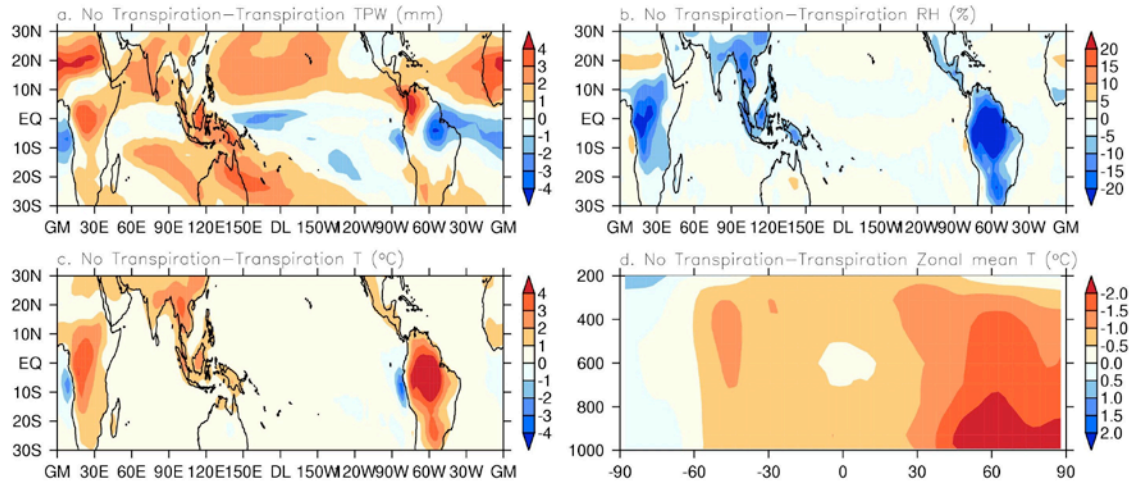


Figure S3. Mean annual difference of (a) total column-integrated moisture, (b) surface air relative humidity, (c) surface air temperature, and (d) Latitudinal mean vertical temperature from the NCAR CAM between the runs without and with plants.

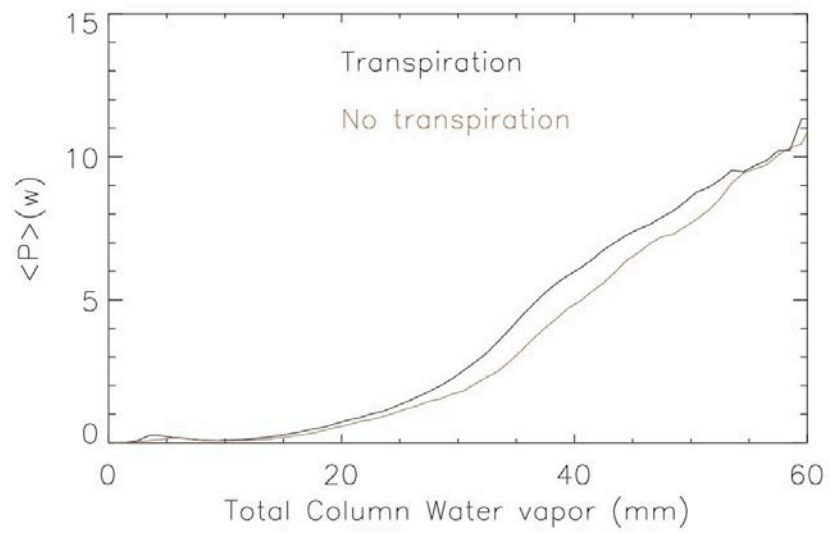


Figure S4. The relationship between total moisture content and mean precipitation for each moisture content bin similar to Peters and Neelin (2008).