

## ***Interactive comment on “Role of moisture transport for Central American precipitation” by Ana María Durán-Quesada et al.***

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Referee 1.

Thank you for your valuable time, please find the response to your comments:

Specific comments

1. Paper Arias, P.A., J.A., Martínez, & S.C. Vieira, 2015: Moisture sources to the 2010-2012 anomalous wet season in northern South America. *Climate Dynamics*, 45(9-10), 2861- 2884 was carefully read and the correspondent cite was incorporated with additional comments on the relationship between the cited paper and the present study.

2. The authors were previously advised to used Sv units as it is the unit used for

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transport in this context, however we included a brief description on the Sv to SI units conversion to clarify for a broader audience.

3. A new panel showing the annual cycle of the computed OLR indices was included in figure 3 as 3.f and the correspondent figure referencing was included in the discussion.

4. The location of the parks is now included.

5. The interpretation was re-written to better explain the results. We used a regular Mann-Kendall test and also a modified Mann-Kendall test for autocorrelated data. This is now clarified in the methods section.

6. There was an error in the caption and is now corrected.

### Technical comments

The discussion version of the manuscript was already proofread, anyway after minor modifications were incorporated following the suggestions of the reviewers, the document was sent for proofreading. Format of the references was corrected.

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Interactive comment on Earth Syst. Dynam. Discuss., doi:10.5194/esd-2016-66, 2016.

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