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EDUCATION

2005 PhD Meteorology. Department of Atmospheric Sciences, University of São Paulo, Brazil.

2000 MSc Meteorology. Department of Atmospheric Sciences, University of São Paulo, Brazil.

1995 BSc Physics. Faculty of Physical Sciences, University of San Marcos, Lima, Peru.

RESEARCH INTERESTS

- Ecosystem Ecology
- Global Change Research
- Land-Atmosphere Interaction
- Remote Sensing
- Atmospheric and Environmental Chemistry

PROFESSIONAL EXPERIENCE

2017-Present Lawrence Berkeley National Laboratory, USA. *Career Research Scientist*

2015 - 2017 Lawrence Berkeley National Laboratory, USA. *Term Research Scientist*

2013 - 2015 Lawrence Berkeley National Laboratory, USA. *Project Scientist*

2012 - 2013 Harvard University, Department of Earth & Planetary Sciences, *Visiting Research Scientist.*

2010 - 2012 Tulane University, Department of Ecology and Evolutionary Biology. *Research Professor.*

2007 - 2010 Tulane University, Department of Ecology and Evolutionary Biology. *Postdoctoral Research Fellow.*

2005 - 2007 Georgia Institute of Technology, School of Earth and Atmospheric Sciences. *Postdoctoral Research Fellow.*

2005 - 2005 University of São Paulo, Department of Atmospheric Sciences, Institute of Astronomy, Geophysics and Atmospheric Sciences. *Postdoctoral Research Fellow.*

- 2002 Department of Meteorology, Florida State University, USA. *Visiting Research Scientist.*
- 2002 Department of Environmental Sciences, University of Virginia, USA. *Visiting Research Scientist.*
- 1995 - 1997 Faculty of Physical Sciences, University of San Marcos, Lima, Peru. *Adjunt Professor.*
- 1994 Geophysical Institute of Peru, Lima, Peru. *Research Assistant.*
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PUBLICATIONS

Newspaper: Op-Ed

1. June 2, 2013
Newspaper and location: The Times-Picayune, New Orleans, LA. Pag. E1 and E4
Title: [Hurricane research is essential to protecting coastal residents](#)

Peer reviewed publications

1. **R. I. Negrón-Juárez**, J. A. Holm, D. M. Marra, S. W. Rifai, W. J. Riley, J. Q. Chambers, C. D. Koven, R. G. Knox, M. E. McGroddy, A. V. Di Vittorio, J. Urquiza-Munoz, R. Tello-Espinoza, W. Alegria-Munoz, G. H. P. M. Ribeiro, N. Higuchi. [Vulnerability of Amazon rainforest to convective storms. *Environmental Research Letters*, 13 \(054021\), 2018.](#)
2. D. Marra, S. Trumbore, N. Higuchi, G. Ribeiro, **R. I. Negrón-Juárez**, F. Holzwarth, S. Rifai, J. Santos, A. Lima, V. Kinupp, J. Q. Chambers, C. Wirth. [Windthrows control biomass patterns and functional composition of Amazon forests. *Global Change Biology*, 2018.](#)
3. Y. Feng, **R. I. Negrón-Juárez**, C.M. Patricola, W.D. Collins, M. Uriarte, J.S. Hall, N. Clinton, J.Q. Chambers. [Rapid remote sensing assessment of impacts from Hurricane Maria on forests of Puerto Rico, *PeerJ Preprints*, 6:e26597v1, 2018.](#)
4. C. G. Fontes, T. E. Dawson¹, K. Jardine, N. McDowell, B. Jimenez, L. Anderegg, **R. I. Negrón-Juárez**, N. Higuchi, P. Fine, A. C. Araújo, J. Q. Chambers. [Dry and hot: the hydraulic consequences of a climate change-type drought, for Amazonian trees. *Philosophical Transactions of the Royal Society B*, 2018.](#)
5. D. S. Christianson, C. Varadharajan, B. Christoffersen, M. Detto, B. Faybishenko, B.O. Gimenez, V. Hendrix, K. J. Jardine, **R. I. Negrón-Juárez**, G. Z. Pastorello, T. L. Powell,

- M. Sandesh, J. M. Warren, B. T. Wolfe, J. Q. Chambers, L. M. Kueppers, N. G. McDowell, D. A. Agarwal. [A metadata reporting framework \(FRAMES\) for synthesis of ecohydrological observations](#), *Ecological Informatics*, 42, 148-158, 2017.
6. **R. I. Negrón-Juárez**, H. Jenkins, J. Q. Chambers, L. Kueppers, W. J. Riley, D. Marra, G. H. P. M. Ribeiro, T. Monteiro, L. Candido, N. Higuchi. [Windthrows Variability in Central Amazonia](#). *Atmosphere*, 8(2), 28, 2017.
 7. K. Jardine, A. Jardine, J. A. Holm, **R. I. Negrón-Juárez**, S. Martin, B. Oliveira, N. Higuchi, J. Chambers. [Monoterpene ‘thermometer’ of tropical forest-atmosphere response to climate warming](#). *Plant, Cell & Environment*, 40(3), 441-452, 2017.
 8. G. Ribeiro, J. Q. Chambers C. J. Peterson, S. E. Trumbore, D. Marra, C. Wirth, J. B. Cannon, **R. I. Negrón-Juárez**, A. J. N. Lima, E. V. C. M. Paula, J. Santos, N. Higuchi. [Mechanical vulnerability of Central Amazon tree species to windthrow in convective storm](#). *Forest Ecology and Management* 380, 1-10, 2016.
 9. H. Zeng, T. Lu, H. Jenkins, **R. I. Negrón-Juárez**, and J. Xu. [Assessing Earthquake-Induced Tree Mortality in Temperate Forest Ecosystems: A Case Study from Wenchuan, China](#). *Remote Sensing*, 8(3), 252, 2016.
 10. L. T. dos Santos, D. M. Marra, S. Trumbore, P. B. Camargo, J. Q. Chambers, **R. I. Negrón-Juárez**, A. J. N. Lima, G. Ribeiro, J. dos Santos, and N. Higuchi. [Windthrows increase soil carbon stocks in a Central Amazon forest](#). *Biogeosciences*, 13, 1299-1308, 2016.
 11. S. W. Rifai, J. Urquiza-Muñoz, **R. I. Negrón-Juárez**, F. Ramirez-Arevalo, R. Tello-Espinoza, M. C. Vanderwel, J. W. Lichstein, J. Q. Chambers, S. A. Bohlman. [Landscape-scale consequences of differential tree mortality from catastrophic wind disturbance in the Amazon](#). *Ecological Applications*, 26(7), 2225-2237, 2016
 12. D. M. Marra, N. Higuchi, S. E. Trumbore, G. H. P. M. Ribeiro, J. dos Santos, V. M. C. Carneiro, A. J. N. Lima, J. Q. Chambers, **R. I. Negrón-Juárez**, F. Holzwarth, B. Reu, and C. Wirth. [Predicting biomass of hyperdiverse and structurally complex Central Amazon forests – a virtual approach using extensive field data](#). *Biogeosciences* 13, 1553-1570, 2016.
 13. **R. I. Negrón-Juárez**, W. J. Riley, C. D. Koven. R. G. Knox, P. G. Taylor and J. Q. Chambers. [The Rainfall Sensitivity of Tropical Net Primary Production in CMIP5 Twentieth- and Twenty-First-Century Simulations](#). *Journal of Climate*, 28, 9313-9331, 2015.
 14. **R. I. Negrón-Juárez**, C. D. Koven, W. J. Riley, R. G. Knox, J. Q. Chambers. [Observed tropical forest productivity, biomass, and allocation patterns are not accurately predicted](#)

- [by CMIP5 models. *Environmental Research Letters*, 10, 064017, 2015. \[Monthly Highlight\].](#)
15. C. D. Koven, J. Q. Chambers, K. Georgion, R. Knox, **R. I. Negrón-Juárez**, W. J. Riley, V. K. Arora, V. Brovkin, P. Friedlingstein, and C. D. Jones. [Controls on terrestrial carbon feedbacks by productivity versus turnover in the CMIP5 Earth System Models. *Biogeosciences*, 12, 5211–5228, 2015.](#)
 16. **R. I. Negrón-Juárez**, J. Q. Chambers, D. B. Baker, and G. C. Hurtt. [Multi-scale sensitivity of Landsat and MODIS to forest disturbance associated with tropical cyclones. *Remote Sensing of Environment* 140, 679-689, 2014.](#)
 17. **R. I. Negrón-Juárez**, J. Q. Chambers, G. C. Hurtt, B. Annane, M. Powell, M. Stott, S. Goosem, D. Metcalfe, and S. Saatchi. [Assessing forest disturbance across complex mountainous terrain: The pattern and severity of impacts of tropical cyclone Yasi on Australian rainforest. *Remote Sensing*, 6\(6\), 5633-5649, 2014.](#)
 18. A. V. Di Vittorio, **R. I. Negrón-Juárez**, N. Higuchi and J. Q. Chambers. [Tropical forest carbon balance: effects of field- and satellite-based mortality regimes on the dynamics and the spatial structure of Central Amazon forest biomass. *Environ. Res. Lett.*, 9, 034010, 2014.](#)
 19. D. M. Marra, J. Q. Chambers, N. Higuchi, S. E. Trumbore, G. P. Ribeiro, J. dos Santos, **R. I. Negrón-Juárez**, B. Reu and C. Wirth. [Large-Scale Wind Disturbances Promote Tree Diversity in a Central Amazon Forest. *PLOS ONE*, 9\(8\), e103711, 2014.](#)
 20. J. P. Fisk, G. C. Hurtt, J. Q. Chambers, H. Zeng, **R. I. Negrón-Juárez**. [The impacts of tropical cyclones on the net carbon balance of eastern U.S. forests \(1851-2000\). *Environmental Research Letters* 8, 045014, 2013.](#)
 21. J. Q. Chambers, **R. I. Negrón-Juárez**, D. M. Marra, J. Tews, D. Roberts, A. Vittorio, G.H. P. M. Ribeiro, S. Trumbore, and N. Higuchi. [The steady-state mosaic of disturbance and succession across an old-growth Central Amazon forest landscape. *Proceedings of the National Academy of Sciences* 110 \(10\), 3949-3954, 2013.](#)
 22. J. Muhr, A. Agner, **R. I. Negrón-Juárez**, W. A. Muñoz, G. Kraemer, J. R. Santillan, J. Q. Chambers, and S. E. Trumbore. [Carbon dioxide emitted from live stems of tropical trees is several years old. *Tree Physiology*, 33, 743-752, 2013.](#)
 23. A. Angert, J. Muhr, **R. I. Negrón-Juárez**, W. Muñoz, G. Kraemer, J. Santillan, E. Barkan, S. Mazeh, J. Chambers, and S. Trumbore. [Internal respiration of Amazon tree stems greatly exceeds external CO₂ efflux. *Global Biogeochemical Cycles*, 9, 11443-11477, 2012.](#)

24. A. Angert, J. Muhr, **R. I. Negrón-Juárez**, W. Muñoz, G. Kraemer, J. Santillan, J. Chambers, and S. Trumbore. [The contribution of respiration in trees-stems to the Dole effect. *Biogeosciences Discuss.* 9, 1097-1114, 2012.](#)
25. **R. I. Negrón-Juárez**, J. Q. Chambers, D. M. Marra, G. H. P. M. Ribeiro, S. Rifai, N. Higuchi, and Dar Roberts. [Detection of subpixel treefall gaps with landsat imagery in Central Amazon forest. *Remote Sensing of Environments* 115, 3322-3328, 2011.](#)
26. **R. I. Negrón-Juárez**, J. Q. Chambers, G. Guimaraes, H. Zeng, C. F. M. Raupp, D. M. Marra, G. H. P. M. Ribeiro, S. S. Saatchi, B. W. Nelson, N. Higuchi. [Widespread Amazon forest tree mortality from a single cross-basin squall line event. *Geophysical Research Letters* 37, L16701, 2010, \[Journal Cover\].](#)
27. **R. I. Negrón-Juárez**, D. Baker, H. Zeng, T. Henkel, and J. Q. Chambers. [Assessing hurricane-induced tree mortality in U. S. Gulf Coast forest ecosystems. *Journal of Geophysical Research-Biogeosciences* 115, G04030, 2010.](#)
28. J. Q. Chambers, **R. I. Negrón-Juárez**, H. George, J. Fisher, R. Thomas, D. Marra, and N. Higuchi. [Lack of intermediate-scale disturbance data prevents robust extrapolation of plot-level tree mortality rates for old-growth tropical forest. *Ecology Letters* 12, E22-E25, 2009.](#)
29. **R. I. Negrón-Juárez**, W. Li, R. Fu, K. Fernandes, and A. Cardoso. [Comparison of precipitation datasets over the tropical South American and African Continents. *Journal of Hydrometeorology* 10\(1\), 289-299, 2009.](#)
30. H. Zeng, J. Q. Chambers, **R. I. Negrón-Juárez**, G. C. Hurtt, D. Baker, and M. D. Powell. [Impacts of tropical cyclones on U. S. Forest tree mortality and carbon flux from 1851 to 2000. *Proceedings of the National Academy of Sciences* 106 \(19\), 7888-7892, 2009.](#)
31. N. Meskhidze, L. A. Remer, S. Platnick, **R. I. Negrón-Juárez**, A. M. Lichtenberger, and A. R. Aiyyer. [Exploring the differences in cloud properties observed by the Terra and Aqua MODIS sensors. *Atmospheric Chemistry and Physics* 9, 3461-3475, 2009.](#)
32. **R. I. Negrón-Juárez**, J. Q. Chambers, H. Zeng, D. Baker. [Hurricane driven changes in land cover create biogeophysical climate feedbacks. *Geophysical Research Letters* 35, L23401, 2008.](#)
33. **R. I. Negrón-Juárez**, M. L. Goulden, R. Myneni, R. Fu, S. Bernardes, H. Gao. [An empirical approach to retrieve monthly evapotranspiration over Amazonia. *International Journal of Remote Sensing* 29\(24\), 7045-7063, 2008.](#)

34. **R. I. Negrón-Juárez**, H. R. da Rocha, A. M. Figueira, and M. L. Goulden. [An improved estimate of leaf area index based on the histogram analysis of hemispherical photographs. *Agricultural and Forest Meteorology* 149, 920-928, 2009.](#)
35. Y. Zhang, R. Fu, H. Yu, R. E. Dickinson, **R. I. Negrón-Juárez**, M. Chin, H. Wang. [A regional climate model study of how biomass burning aerosol impacts land-atmosphere interactions over the Amazon. *Journal of Geophysical Research-Atmosphere* 113, D14S15, 2008.](#)
36. H. Gao, R. Fu, R. E. Dickinson, and **R. I. Negrón-Juárez**. [A practical method for retrieving land surface temperature from AMSR-E over the Amazon forest. *IEEE Transactions on Geosciences and Remote Sensing* 46 \(1\), 193-198, 2008.](#)
37. W. Li, R. Fu, **R. I. Negrón-Juárez**, and K. Fernandes. [Observed change in the Standardized Precipitation Index, its potential cause and implications to future climate in the Amazon region. *Philosophical Transactions of the Royal Society of London B* 363, 1767-1772, 2008.](#)
38. **R. I. Negrón-Juárez**, M. Hodnett, R. Fu, M. L. Goulden, and C. von Randow. [Control of Dry Season Evapotranspiration over the Amazonian Forest as inferred from observations at a Southern Amazon Forest site. *Journal of Climate* 20\(12\), 2827-2839, 2007.](#)
39. R. B. Myneni, W. Yang, R. R. Nemani, A. R. Huete, R. E. Dickinson, Y. Knyazikhin, K. Didan, R. Fu, **R. I. Negrón-Juárez**, S. Saatchi, H. Hashimoto, K. Ichii, N. V. Shabanov, B. Tan, P. Ratana, J. L. Privette, J. T. Morisette, E. F. Vermote, D. P. Roy, R. E. Wolfe, M. A. Fried, S. W. Running, P. Votava, N. Z. Saleous, S. Devadiga, Y. Su, V. V. Salomonson. [Large seasonal swings in leaf area of Amazon rainforest. *Proceeding of the National Academy of Sciences* 104\(12\), 4820-4823, 2007.](#)
40. H. R. da Rocha, H. Freitas, R. Rosolem, **R. I. Negrón-Juárez**, R. Tannus, M. Ligo, M. O. Cabral, M. A. F. Silva Dias. [Measurements of CO₂ exchange over a woodland savanna \(Cerrado *sensu stricto*\) in Southeast Brazil. *Biota Neotropica* 2, 1-11. 2002.](#)
41. **R. I. Negrón-Juárez**, and W.T.H. Liu. [NDVI FFT analysis of spatial climatic variation in northeast Brazil. *International Journal of Climatology* 21\(14\), 1803-1820, 2001.](#)
42. W. T. H. Liu and **R. I. Negrón-Juárez**. [ENSO drought onset prediction in northeast Brazil using NDVI. *International Journal of Remote Sensing* 22\(17\), 3483-3501, 2001.](#)

Book chapters

1. H. S. Jenkins, P. A. Baker, T. P. Guilderson, C. A. Nobre, and **R. I. Negrón-Juárez**. Extreme drought events revealed in Amazon tree ring records. In *Amazon Droughts*, C. Nobre and L. Borma (eds.). Sao Paulo, Oficina de Textos, ISBN: 978-85-7975-078-6, 2013.

2. H. R. da Rocha, H. Freitas, R. Rosolem, R. Tannus, **R. I. Negrón-Juárez**, M. Ligo, O. Cabral, H. Mesquita, M. Mittencourt (2004): Hydrology cycle and microclimate. In *Cerrado Pé de Gigante – Ecology and conservation*. Ed. São Paulo, p. 70-89.
3. H. R. da Rocha, H. Freitas, R. Rosolem, R. Tannus, **R. I. Negrón-Juárez**, M. Ligo, O. Cabral, H. Mesquita, M. Mittencourt (2004): The carbon cycle. In *Cerrado Pé de Gigante – Ecology and conservation*. Ed. São Paulo, p. 276-293.

Conference proceedings

1. **R. Negrón-Juárez**, J. A. Holm, D. Roberts, D. Marra, S. Rifai, B. Faybishenko, W. J. Riley, and G. P. Ribeiro, J. Q. Chambers, N. Higuchi. Tropical Forest Recovery Following Disturbances: A Remote Sensing Approach. 2017 Environmental System Science (ESS) PI Meeting, Sponsored by DOE. April 25 – 26, 2017. Potomac, MD, USA.
2. **R. I. Negrón-Juárez**, J. Holm, J. Q. Chambers, W. J. Riley, A. Di Vittorio, D. Magnabosco Marra, S. W. Rifai, C. Koven, R. G. Knox, M. McGroddy, J. Urquiza-Munoz, R. Tello-Espinoza, W. Alegria-Munoz, G.H.P.M. Riberio, N. Higuchi. Amazon storm-driven tree mortality. AGU Fall meeting, 12-16 December 2016, San Francisco, CA, USA.
3. K. Jardine, B. Gimenez, **R. I. Negrón-Juárez**, C. Koven, T. Powell, N. Higuchi, J. Chambers, C. Varadharajan. Leaf temperature and stomatal influences on sap velocity diurnal hysteresis in the Amazon rainforest. AGU Fall meeting, 12-16 December 2016, San Francisco, CA, USA.
4. D. Christianson, C. Varadharajan, M. Detto, B. Faybishenko, K. Jardine, **R. I. Negrón-Juárez**, B. Gimenez, G. Pastorello, J. Warren, B. Wolfe, D. Agarwal. A Metadata reporting framework for standardization and synthesis of ecohydrological field observations. AGU Fall meeting, 12-16 December 2016, San Francisco, CA, USA.
5. **R. I. Negrón-Juárez**, C. D. Koven, W. J. Riley, R. G. Knox, J. Q. Chambers, Observed allocations of productivity and biomass, and turnover times in tropical forests are not accurately represented in CMIP5 Earth system models, AGU Fall meeting, 14-18 December 2015, San Francisco, CA, USA.
6. J. A. Holm, **R. I. Negrón-Juárez**, J. Q. Chambers, D. M. Marra, S. Rifai, R. G. Knox, W. J. Riley, C. D. Koven, M. McGroddy, J. Urquiza-Muñoz, R. Tello-Espinoza, G. Ribeiro, N. Higuchi, Modeling Amazon forest vegetation dynamics and community response to increased wind disturbance, AGU Fall meeting, 14-18 December 2015, San Francisco, CA, USA.
7. **R. I. Negrón-Juárez**, W. J. Riley, C. D. Koven, J. Q. Chambers, R. G. Knox, and P. H. Taylor, The association between net primary productivity and rainfall in CMIP5 20th and 21st century simulations, AGU Fall meeting, 15-19 December 2014, San Francisco, CA, USA.
8. **R. I. Negrón-Juárez**, W. J. Riley, C. D. Koven, J. Q. Chambers, R. G. Knox, and P. H. Taylor, Evaluating productivity and biomass patterns of tropical forests in CMIP5 models, Scientific Focus Area (SFA) Review, 12-16 May 2014, Potomac, Maryland.

9. **R. I. Negrón-Juárez**, J. Q. Chambers, S. W. Rifai, J. Urquiza, , R. Tello, W. Alegria, D. M. Marra, G. H.P.M. Ribeiro, and N. Higuchi, Sensitivity of the Amazon rainforest to convective storms, AGU Fall meeting, 3-7 December 2012, San Francisco, CA, USA.
10. J.Q. Chambers, **R. I. Negrón-Juarez**, A. V. Di Vittorio, D. Marra, S. W. Rifai, G. Ribeiro, and N. Higuchi, Toward detection of CO₂ fertilization of tree growth and biomass accumulation in Amazon forests, AGU Fall meeting, 3-7 December 2012, San Francisco, CA, USA
11. **R. I. Negrón-Juárez**, J. Q. Chambers, G. C. Hurtt, and J. P. Fisk, Hurricane surface winds and forest disturbance assessment in US forest ecosystems. AGU Fall meeting, 5-9 December 2011. San Francisco, CA, USA.
12. J. Q. Chambers, **R. I. Negrón-Juárez**, D. Marra, D. A. Roberts, A. V. Di Vittorio, N. Higuchi, and S. Trumbore, Succession-inducing disturbances and the old-growth forest mosaic of a Central Amazon landscape. AGU Fall meeting, 5-9 December 2011. San Francisco, CA, USA.
13. J. P. Fisk, G. C. Hurtt, J. Q. Chambers, H. Zeng, K. Dolan, S. Flanagan, O. Rourke, and **R. I. Negrón-Juárez**, Projecting future impacts of hurricanes on the carbon balance of eastern U.S. forests. AGU Fall meeting, 5-9 December 2011. San Francisco, CA, USA.
14. G. C. Hurtt, J. P. Fisk, J. Q. Chambers, L. P. Chini, K. Dolan, R. Dubayah, L. Duncanson, Flanagan, S. Frohking, C. Huang, J. G. Masek, D. C. Morton, Y. L. Page, **R. I. Negrón-Juárez**, E. Shevliakova, P. E. Thornton, and H. Zeng, Modeling the impacts of disturbances on carbon dynamics over large regions. AGU Fall meeting, 5-9 December 2011. San Francisco, CA, USA.
15. **R. I. Negrón-Juárez**, J. Q. Chambers, G. C. Hurtt, and J. Fisk, Hurricane winds as predictor of forest disturbance, NASA Carbon Cycle and Ecosystems. Joint Science Workshop, 3-7 October 2011, Alexandria, VA, USA.
16. **R. I. Negrón-Juárez**, J. Q. Chambers, G. Guimaraes, H. Zeng, C. Raupp, D. M. Marra, G. Ribeiro, S. S. Saatchi, N. Higuchi. Basin-wide Amazon forest tree mortality from a large 2005 storm. AGU Fall meeting, 13-17 December 2010. San Francisco, CA, USA.
17. J. Q. Chambers, **R. I. Negrón-Juárez**, D. M. Marra, D. A. Roberts, G. C. Hurtt, A. Lima, N. Higuchi. Amazon old-growth forest wind disturbance and the regional carbon balance. AGU Fall meeting, 13-17 December 2010. San Francisco, CA, USA.
18. S. W. Rifai, J. Q. Chambers, **R. I. Negrón-Juárez**, F. Ramirez, R. Tello, W. Alegria Munoz. Wind disturbance produced changes in tree species assemblage in the Peruvian Amazon. AGU Fall meeting, 13-17 December 2010. San Francisco, CA, USA.
19. **R. I. Negrón-Juárez**, J. Q. Chambers, S. Rifai, N. Higuchi, W. Alegria-Muñoz, R. Tello-Espinoza, F. Ramirez, D. M. Marra. Tropical forest tree species community assembly along wind disturbance gradients in Amazon forest. NASA biodiversity and Ecological Forecasting Team. May 17-19, 2010.
20. A. Ruhoff, **R. I. Negrón-Juárez**, R. Freitas, W. Collischonn and H. Rocha. Variability of latent and sensible heat fluxes in Cerrado *sensu stricto* forests. XIV Brazilian Symposium of Remote Sensing, 25-30 April 2009, Natal, Brazil.
21. **R. I. Negrón-Juárez**, J. Q. Chambers, N. Higuchi, J. Guimaraes, D. Marra. Regional disturbance over Amazon forest from a single synoptic-scale event. LBA International Scientific Conference, Nov. 17-21, 2008. Manaus, Brazil.

22. **R. I. Negrón-Juárez**, J. Q. Chambers, H. Zeng, D. Baker. Biogeophysical climate feedbacks from hurricanes. AGU Fall meeting, 15-19 December 2008. San Francisco, CA, USA.
23. **R. I. Negrón-Juárez**, W. Li, R. Fu, K. Fernandes, and A. Cardoso. Comparison of precipitation datasets over the tropical South American and African continents. AGU Fall meeting, 10-14 December 2007. San Francisco, CA, USA.
24. W. Li, R. Fu, **R. I. Negrón-Juárez**, and K. Fernandes. Causes of recent changes of rainfall variabilities and implications to the Future climate in the Amazon region. AGU Fall meeting, 10-14 December 2007. San Francisco, CA, USA.
25. Y. Zhang , R. Fu, H. Yu, R. E. Dickinson, **R. I. Negrón-Juárez**, and M. Chin, A regional climate model study of how biomass burning aerosol impacts the land-atmosphereinteraction over the Amazon. AGU Fall meeting, 10-14 December 2007. San Francisco, CA, USA.
26. N. Meskhidze, **R. I. Negrón-Juárez**, L. Remer, S. Platnick, and A. Aiyyer. Patterns and connections between aerosols, clouds and vegetation in the Amazon as seen by the twin MODIS sensors aboard Terra and Aqua. AGU Fall meeting, 10-14 December 2007. San Francisco, CA, USA.
27. **R. I. Negrón-Juárez**, R. Fu, R. Myneni, R. E. Dickinson, S. Bernardes, H. Gao, M. Goulden, and S. C. Wofsy. An empirical approach to retrieve evapotranspiration over Amazonia. American Geophysical Union Fall meeting, 11-15 December 2006, San Francisco, CA, USA.
28. R. Fu, W. Li, and **R. I. Negrón-Juárez**. What has enhanced the interannual variation of seasonal cycle in the Amazon in recent decades? American Geophysical Union Fall meeting, 11-15 December 2006, San Francisco, CA, USA.
29. **R. I. Negrón-Juárez**, R. Fu, M. Hotnett, M. L. Goulden, and C. von Randow. Amazonia dry season: Controls of evapotranspiration. Joint workshop on NASA biodiversity, terrestrial ecology, and related applied sciences, 21-25 August 2006, Adelphi, MD, USA.
30. **R. I. Negrón-Juárez**, and H. R. Rocha. Climatic differences between the Cerrado *sensu stricto* ecosystem and the sugar cane agroecosystem in Southeast Brazil. XIII Brazilian Congress of Meteorology, 29 August-3 September 2004, Fortaleza-CE, Brazil.
31. **R. I. Negrón-Juárez** and H. R. Rocha. Numerical study of climate sensibility over Southeast Brazil due to land use changes. XIII Brazilian Congress of Meteorology, 29 August-3 September 2004, Fortaleza-CE, Brazil.
32. **R. I. Negrón-Juárez** and Rocha, H. R. Climate sensibility over southeast Brazil due to land use changes. 3rd LBA Science Conference, 27-29 July 2004, Brasilia-GO, Brazil.
33. **R. I. Negrón-Juárez** and Rocha, H. R. Climate and turbulent fluxes observation over the Cerrado *sensu stricto* and sugar cane sites. 3rd LBA Science Conference, 27-29 July 2004, Brasilia-GO, Brazil.
34. R. N. Tannus, H. R. Rocha, H. C. Freitas, **R. I. Negrón-Juárez**, R. D. Bruno, L. S.Oliveira, O. M. R. Cabral, R. M. Ribeiro, D. Kurzatowski, S. Merlin, Collicchio E. Climate and surface-atmosphere fluxes over cerrado *sensu stricto* and flooded cerrado. 3rd LBA Science Conference, 27-29 July 2004, Brasilia-GO, Brazil.
35. R. D. Bruno, H. R. Rocha, H. C. Freitas, **R. I. Negrón-Juárez**, S. D.Miller, M. L. Goulden, O. M. R. Cabral. Observed variability of soil moisture in Tropical Forest and Cerrado *sensu stricto*. 3rd LBA Science Conference, 27-29 July 2004, Brasilia-GO, Brazil.

36. **R. I. Negrón-Juárez** and H. R. Rocha. Estimation of leaf area index using the gap fraction method: An algorithm using threshold's definition for canopies of tropical forest, pastureland and savannah. 2nd LBA Science Conference, 7-10 July 2002, Manaus-AM, Brazil.
37. **R. I. Negrón-Juárez** and W. T. H. Liu. FFT analysis of northeast Brazil vegetation phenology recorded by satellite index. X Brazilian symposia of remote sensing, 21-26 April 2001, Fos de Iguaçu, PR, Brazil.
38. **R. I. Negrón-Juárez** and W. T. H. Liu. ENSO drought onset prediction in northeast Brazil using satellite recorded index. VI International Conference on Southern Hemisphere Meteorology and Oceanography, 3-7 April 2000, Santiago, Chile.
39. **R. I. Negrón-Juárez** and H. R. Rocha. Reflectance and CO₂ fluxes in the Biosphere-Atmosphere interface over Forest and crops Brazilian ecosystems. 1st Symposium of the Biota/FAPESP program, 10-13 December 2000, Parque Estadual de Intervales, Sao Paulo-SP, Brazil.

MEETINGS

- 2018: 2018 Environmental System Science (ESS) PI Meeting, 1-2 May 2018, Potomac, MD, USA
- 2017: American Geophysical Union, Fall meeting, 11-15 December 2017, New Orleans, LA, USA.
- 2017: 8th International conference on wind and trees, Boulder, CO. 17 July - 20 July 2017.
- 2017: 2017 Environmental System Science (ESS) PI Meeting, Sponsored by DOE. April 25 – 26, 2017. Potomac, MD, USA.
- 2016: American Geophysical Union, Fall meeting, 12-16 December 2016, San Francisco, CA, USA.
- 2015: American Geophysical Union, Fall meeting, 14-18 December 2015, San Francisco, CA, USA.
- 2014: American Geophysical Union, Fall meeting, 15-19 December 2014, San Francisco, CA, USA.
- 2014: Scientific Focus Area (SFA) Review, Sponsored by DOE. Potomac, Maryland 12-16 May 2014.
- 2013: Remote sensing of vegetation mortality: challenges, solutions, and ecological understanding. Santa Fe, NM, 4-6 September 2013.
- 2013 American Geophysical Union, Fall meeting, 9-13 December, San Francisco, CA, USA.
- 2012: American Geophysical Union, Fall meeting, 3-7 December, San Francisco, CA, USA.
- 2011: American Geophysical Union, Fall meeting, 5-9 December, San Francisco, CA, USA.
- 2011: Geo-Carbon Conference: 'Carbon in a changing world'. FAO and the FP7 Coordination Action Carbon Observational System. 24-26 October 2011, Rome, Italy.
- 2011: NASA Carbon Cycle and Ecosystems, Joint Science Workshop. 3-7 October

- 2011, Alexandria, VA, USA.
- 2011: AmeriFlux Science Meeting and 3rd NACP All-Investigators Meeting, January 31- February 4, 2011. New Orleans, LA, USA.
- 2010: American Geophysical Union, Fall meeting, 13-17 December, San Francisco, CA, USA.
- 2010: NASA biodiversity and Ecological Forecasting Team. May 17-10, DC, USA.
- 2008: American Geophysical Union, Fall meeting, 15-19 December, San Francisco, CA, USA.
- 2008: LBA-ECO Science Conference. November 17-20, Manaus-MA, Brazil
- 2007: American Geophysical Union, Fall meeting, 10-14 December, San Francisco, CA, USA.
- 2006: American Geophysical Union, Fall Meeting, 11-15 December, San Francisco, CA, USA.
- 2006: Workshop on NASA biodiversity, terrestrial ecology, and related applied sciences, 21-25 August, Adelphi, MD, USA.
- 2004: Users seminar of numerical prediction climate changes and its regional impacts. October 19-20, CPTEC/INPE Cachoeira Paulista-SP, Brazil.
- 2004: 13th Brazilian Congress of Meteorology. August 28-September 3, Fortaleza-CE, Brazil.
- 2004: 3rd LBA Science Conference. July 27-29, Brasília-GO, Brazil.
- 2002: 1st Symposia of the Biota/FAPESP Program. December 10-13, Sao Paulo-SP. Brazil.
- 2002: 2nd LBA Science Conference. July 7-10, Manaus-AM, Brazil.
- 2001: 1st LBA flux tower workshop. December 3-5, CPTEC/INPE Cachoeira Paulista-SP, Brazil.
- 2000: 11th Brazilian Congress of Meteorology. October 16-20, Rio de Janeiro-RJ, Brazil.
- 1999: 11th Brazilian Congress of Agrometeorology - 2nd Latinoamerican meeting of Agrometeorology. July 19-24, Florianopolis-SC, Brazil.
- 1998: 10th Brazilian Congress of Meteorology. October 26-30, Brasilia-GO, Brazil.

MEDIA INTEREST

- 2017 **R. I. Negrón-Juárez**, H. Jenkins, J. Q. Chambers, L. Kueppers, W. J. Riley, D. Magnabosco Marra, G. H. P. M. Ribeiro, T. Monteiro, L. Candido, N. Higuchi. Windthrows Variability in Central Amazonia. *Atmosphere*, 8(2), 28, 2017.
- DOE Office of Science BER : [If a Tree Falls in the Amazon](#).
 - LBNL EESA: [Pioneering Study on Amazon Windthrows](#)
- 2015 **R. I. Negrón-Juárez**, C. D. Koven, W. J. Riley, R. G. Knox, J. Q. Chambers. Observed tropical forest productivity, biomass, and allocation patterns are not accurately predicted by CMIP5 models. *Environmental Research Letters*, 10, 064017 (2015). [[Monthly Highlight](#)]
- environmentalresearchweb:

<http://environmentalresearchweb.org/cws/article/news/62433>

- LBNL:

<http://esd.lbl.gov/negron-juarez-et-al-find-that-most-esms-show-carbon-uptake-bias-for-tropical-forests/>

R. I. Negrón-Juárez, W. J. Riley, C. D. Koven, R. G. Knox, P. G. Taylor and J. Q. Chambers. The Rainfall Sensitivity of Tropical Net Primary Production in CMIP5 Twentieth- and Twenty-First-Century Simulations. *Journal of Climate*, [10.1175/JCLI-D-14-00675.1](https://doi.org/10.1175/JCLI-D-14-00675.1) (2015).

- Climate Data Factory (<http://www.climate-kic.org/projects/climate-data-factory/>)
[The Rainfall Sensitivity of Tropical Net Primary Production in CMIP5](http://www.climate-kic.org/projects/climate-data-factory/)

2013 J. Q. Chambers, **R. I. Negrón-Juárez**, D. M. Marra, J. Tews, D. Roberts, A. Vittorio, G. H. P. M. Ribeiro, S. Trumbore, and N. Higuchi. The steady-state mosaic of disturbance and succession across an old-growth Central Amazon forest landscape. *Proceedings of the National Academy of Sciences* *110* (10), 3949-3954 (2013).

- <http://newscenter.lbl.gov/news-releases/2013/01/28/new-research-will-help-shed-light-on-role-of-amazon-forests-in-global-carbon-cycle/>
- <http://news.mongabay.com/2013/0201-tree-die-off-amazon.html>
- <http://www.redorbit.com/news/science/1112772938/tree-death-higher-than-thought-012913/>

2011 **R. I. Negrón-Juárez**, J. Q. Chambers, D. M. Marra, G. H. P. M. Ribeiro, S. Rifai, N. Higuchi, and Dar Roberts. Detection of subpixel treefall gaps with landsat imagery in Central Amazon forest. *Remote Sensing of Environments* *115*, 3322-3328 (2011).

- Faculty of 1000: <http://f1000.com/13093956>
- New Wave: http://tulane.edu/news/newwave/121511_trees.cfm
- Tulane University: <http://tulane.edu/sse/eebio/news-and-events/>

2010 **R. I. Negrón-Juárez**, J. Q. Chambers, G. Guimaraes, H. Zeng, C. F. M. Raupp, D. M. Marra, G. H. P. M. Ribeiro, S. S. Saatchi, B. W. Nelson, N. Higuchi. Widespread Amazon forest tree mortality from a single cross-basin squall line event. *Geophysical Research Letters* *37*, L16701 (2010).

- AGU: http://www.agu.org/news/press/pr_archives/2010/2010-17.shtml
- GRL Cover: <http://www.agu.org/journals/gl/covers/grlbackiss2010.shtml> (Vol 37, No 16).
- Reuters: <http://uk.reuters.com/article/2010/07/13/idUKN1380765.CH.2420>
- Science: <http://news.sciencemag.org/sciencenow/2010/07/amazon-hit-by-its-own-katrina.html>
- Nature: <http://www.nature.com/nature/journal/v467/n7311/full/467008f.html>
- Fantastico (TV Show, Brazil):
<http://fantastico.globo.com/Jornalismo/FANT/0,,MUL1607427-15605,00-TEMPESTADE+NA+AMAZONIA+DERRUBOU+MEIO+BILHAO+DE+ARVO RES.html>
- Folha de Sao Paulo (Newspaper, Brazil):

<http://www1.folha.uol.com.br/ambiente/766136-vento-derruba-meio-bilhao-de-arvores-na-amazonia.shtml>

- 2009 H. Zeng, J. Q. Chambers, **R. I. Negrón-Juárez**, G. C. Hurtt, D. Baker, and M. D. Powell. Impacts of tropical cyclones on U. S. Forest tree mortality and carbon flux from 1851 to 2000. *Proceedings of the National Academy of Sciences* *106* (19), 7888-7892 (2009).
- ScienceDaily: <http://www.sciencedaily.com/releases/2009/05/090501201353.htm>
 - Nature: <http://www.nature.com/nature/journal/v461/n7262/full/461319e.html>
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