ROBINSON I. NEGRÓN-JUÁREZ
Lawrence Berkeley National Laboratory
Earth Sciences Division
1 Cyclotron Road, Berkeley, CA 94720
Email: robinson.inj@lbl.gov

EDUCATION

2004 PhD Meteorology. Department of Atmospheric Sciences, Institute of Astronomy, Geophysics and Atmospheric Sciences, University of São Paulo, Brazil.

2000 MSc Meteorology. Department of Atmospheric Sciences, Institute of Astronomy, Geophysics and Atmospheric Sciences, University of São Paulo, Brazil.

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

RESEARCH INTERESTS

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

PROFESSIONAL EXPERIENCE

2013 - Present	Project Scientist, Lawrence Berkeley National Laboratory, USA.
2013 - Present	Visiting Research Scientist, Department of Earth & Planetary Sciences, Harvard University, USA.
2012 - Present	Research Professor, Department of Ecology and Evolutionary Biology, Tulane University, USA.
2010 - Present	Honorary Professor, National University of the Peruvian Amazon. School of Forest Sciences. Peru.
2007 - 2011	Postdoctoral Research Fellow, Department of Ecology and Evolutionary Biology, Tulane University, USA
2005 - 2007	Postdoctoral Research Fellow, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, USA
2004 - 2005	Postdoctoral Research Fellow, Department of Atmospheric Sciences, Institute of Astronomy, Geophysics and Atmospheric Sciences, University of São Paulo, Brazil
2002	Exchange Visitor Program, Department of Meteorology, Florida State University, USA.

2002	Exchange Visitor Program, Department of Environmental Sciences, University of Virginia, USA.
1995 - 1997	Assistant Professor, Faculty of Physical Sciences, University of San Marcos, Lima, Peru
1994	Research Assistant, Geophysical Institute of Peru, Lima, Peru

PROFESSIONAL SERVICES

Peer Reviewer	Journal of Climate, Journal of Hydrometeorology, Journal of Geophysical Research-Biogeosciences, International Journal of Climatology, Agricultural and Forest Meteorolgy, Pland Ecology and Diversity, Public Library of Science (PLOS).
Proposal Reviewer	National Science Foundation (NSF), Department of Energy (DOE), National Oceanic and Atmospheric Administration (NOAA), National Aeronautics and Space Administration (NASA)

PUBLICATIONS

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. Q. Chambers, D. B. Baker, and G. C. Hurrt. Multi-scale sensitivity of Landsat and MODIS to forest disturbance associated with tropical cyclones. *Remote Sensing of Environment* 140, 679-689 (2014).

2. 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).

3. 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).

4. 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).

5. **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 of Environment*, (2013, *in review*)

6. D. Baker, **R. I. Negrón-Juárez**, and J. Q. Chambers. Hurricane-induced damage characteristics to U. S. Gulf Coast forest Ecosystems. *Forest Ecology and Management* (2013, *submitted*).

7. 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 CO_2 efflux. *Global Biogeochemical Cycles*, 9, 11443-11477 (2012).

8. 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).

9. **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).

10. **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).

11. **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).

12. 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).

13. **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, doi: 10.1175/2008JHM1023.1 (2009).

14. 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).

15. 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).

16. **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, doi:10.1029/2008GL035683 (2008).

17. **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, doi: 10.1080/01431160802226026 (2008).

18. **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, doi:10.1016/j.agrformet.2008.11.012 (2009).

19. 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, doi:10.1029/2007JD009449 (2008).

20. 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).

21. W. Li, R. Fu, **R.I. Negrón-Juárez**, and K. Fernandes. Observed change if 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).

22. **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).

23. 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).

24. H. R. da Rocha, H. Freitas, R. Rosolem, **R.I. Negrón-Juárez**, R. Tannus, M. Ligo, M. O. Cabral, M. A. F. Silva Dias (2002): Measurements of CO2 exchange over a woodland savanna (Cerrado *sensu stricto*) in Southeast Brazil. *Biota Neotropica 2*, 1-11 (2002).

25. **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).

26. 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. 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.
2. J.Q. Chambers, **R. I. Negron-Juarez**, A. V. Di Vittorio, D. Marra, S. W. Rifai, G. Ribeiro, and N. Higuchi, Toward detection of CO_2 fertilization of tree growth and biomass accumulation in Amazon forests, AGU Fall meeting, 3-7 December 2012, San Francisco, CA, USA
3. **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.
4. 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.
5. 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.
6. G. C. Hurtt, J. P. Fisk, J. Q. Chambers, L. P. Chini, K. Dolan, R. Dubayah, L. Duncanson, Flanagan, S. Frolking, 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.
7. **R. I. Negrón-Juárez**, J. Q. Chambers, G. C. Hurrt, 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.
8. **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.
9. 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.

10. 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.
11. **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.
12. 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.
13. **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.
14. **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.
15. **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.
16. 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.
17. 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.
18. 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.
19. **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.
20. 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.
21. **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.

22. **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.

23. **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.

24. **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.

25. **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.

26. 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. Kurzatkowski, 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.

27. 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.

28. **R. I. Negrón-Juárez** and H. R. Rocha. Estimation of leaf area index using the gap fraction method: An algorithm using threshhold´s definition for canopies of tropical forest, pastureland and savannah. 2nd LBA Science Conference, 7-10 July 2002, Manaus-AM, Brazil.

.29. **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.

30. **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.

31. **R. I. Negrón-Juárez** and H. R. Rocha. Reflectance and CO_2 fluxes in the Biosphere-Atmosphere interface over Forest and crops Brazilian ecosytems. 1st Symposium of the Biota/FAPESP program, 10-13 December 2000, Parque Estadual de Intervales, Sao Paulo-SP, Brazil.

MEETINGS

2013: Remote sensing of vegetation mortality: challenges, solutions, and ecological understanding. Santa Fe, NM, 4-6 September 2013.

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.

ORAL PRESENTATIONS

Invited Presentations

2013 Forest Disturbance, Regional Climate and Carbon Balance: A remote sensing approach. International Workshop on Climate change and Biodiversity, Pernambuco Institute of Technology, Pernambuco, Brazil, 28-30 October, 2013.

2013 Remote sensing of vegetation mortality: Amazon/US Gulf Coast/Australia. LANL: Remote sensing of Vegetation workshop, September 4, 2013.

2013 Assessment of wind-driven tree mortality in tropical and temperate forest. University of Georgia, Department of Plant Biology, Athens-Georgia, January 7, 2013.

2011 Forest disturbances and their effect in the carbon balance. Max-Planck Institute for Biogeochemistry, Jena, Germany. November 1st, 2011.

Meetings and Seminars

2012 Storms and Hurricanes: Windthrows and the carbon budget. Department of Earth & Planetary Sciences, Harvard University, Cambridge, MA, September 11, 2012.

2011 Landscape forest disturbances and their effect on the carbon balance in Gulf Coast forest ecosystems and Amazonia: an integration of field data, remote sensing and modeling. Tulane University, Department of Earth and Environmental Sciences,. New Orleans, LA, September 9, 2011.

2010 Tropical forest tree species community assembly along wind disturbance gradients in Amazon forest. NASA biodiversity and Ecological Forecasting Team. Washington-DC, USA, May 18, 2010.

2010 Rainfall analysis and climate variability in tropical areas. Space Agency of Peru, Lima-Peru. April 7, 2010.

2009 Impacts of convective storms on Amazon carbon balance. Geophysical Institute of Peru, Lima-Peru. July 6, 2009.

1999 NDVI Fast Fourier Transform analysis of spatial climatic variability in Northeast Brazil. University of Sao Paulo, Sao Paulo, Brazil, September 21, 1999.

HONORS AND AWARDS

2005 – 2004 : Postdoctoral Fellowship, **FAPESP - Sao Paulo Government**
2004 : Award for Best graduate research in Physics of Climate for Project: Climate sensibility over southeast Brazil due to land use changes, **3rd LBA Science Conference,** Brasilia–GO, Brazil.
2004 – 2000 : PhD Fellowship, **CAPES - Brazilian Government**
2002 : Research Fellowship, **National Aeronautics and Space Administration**
2000 – 1998 : MSc Fellowship, **CNPq – Brazilian Government**

PROFESSIONAL MEMBERSHIPS

2009 – Present: American Association for the Advancement of Science

2005 – Present: American Geophysical Union (AGU), Member.
2005 – Present: American Meteorological Society (AMS), Member.

LANGUAGES

English, Portuguese, and Spanish.

MEDIA INTEREST

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+ARVORES.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