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Professional Experience

Lamont Research Professor, July 2013 - present

Lamont Associate Research Professor, July 2010 - June 2013

Doherty Research Scientist, December 2009 - June 2010

Doherty Associate Research Scientist, August 2008 - November 2009

Associate Research Scientist, July 2007 - July 2008

Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY.

Executive Director, *Initiative on Extreme Weather and Climate*,

February 2015 - present, *Columbia University, New York, NY.*

Associate Member, *Earth Institute Faculty*, January 2018 - present

Columbia University, New York, NY.

Faculty, Master of Science in Sustainability Science, September 2018 - present,

School of Professional Studies, Columbia University, New York, NY.

Associate Research Scientist, March 2003 - June 2007,

Senior Staff Associate, June 1999 - February 2003,

International Research Institute for Climate and Society (IRI),

Columbia University, Palisades NY.

Associate Professor, February 1996 - May 1999,

São Paulo State University (Unesp), Guaratinguetá, Brazil.

Post-doctoral Researcher, February 1993 - January 1996,

Max-Planck-Institute for Plasma Physics (IPP), Garching, Germany.

Education

Ph.D. in Physics, December 1992, *Munich Technical University, Munich, Germany.*

Thesis: “Analytical Methods in Magnetohydrodynamic Turbulence”

Advisors: Dr. Henri Tasso, Prof. Dr. Dieter Pfirsch

M.S. in Physics, March 1989, *São Paulo University (USP), São Paulo, Brazil.*

Dissertation: “Invariants in Plasma Physics”

Advisor: Prof. Dr. Iberê Luiz Caldas.

B.S. in Physics, December 1986, *São Paulo University (USP), São Paulo, Brazil.*

Refereed Publications

1. M. Bieli, **S.J. Camargo**, A.H. Sobel, J.L. Evans, and T. Hall, 2019. A global climatology of extratropical transition I: Characteristics across basins. *J. Climate*, early online, doi: 10.1175/JCLI-D-17-0518.1.
2. M. Bieli, **S.J. Camargo**, A.H. Sobel, J.L. Evans, and T. Hall, 2019. A global climatology of extratropical transition II: Statistical performance of the cyclone phase space. *J. Climate*, early online, doi: 10.1175/JCLI-D-18-0052.1.
3. **S.J. Camargo** and L.M. Polvani, 2019. Little evidence of reduced global tropical cyclone activity following recent volcanic eruptions. *npj Clim. Atmos. Sci.*, **2**, 14, 10.1038/s41612-019-0070-z.
4. T. Knutson, **S.J. Camargo**, J.C.L. Chan, K. Emanuel, C.-H. Ho, J. Kossin, M. Mohaprata, M. Satoh, M. Sugi, K. Walsh, and L. Wu, 2019. Tropical cyclones and climate change assessment: Part I: Detection and attribution. *Bulletin of the American Meteorological Society*, accepted May (2019).
5. E.D. Maloney, D. Barrie, A. Gettelman, A. Mariotti, Y. Ming, J.D. Neelin, C.-C. Chen, D.R.B. Coleman, Y.-H. Kuo, B. Singh, A. Berg, J.F. Booth, **S.J. Camargo**, A. Dai, A. Gonzalez, X. Jiang, X. Jing, D. Kim, Y. Moon, C.M. Naud, A.H. Sobel, K. Suzuki, F. Wang, J. Wang, A.A. Wing, and X. Xu, 2019. Process-oriented evaluation of climate and weather forecasting models. *Bull. Amer. Meteorol. Soc.*, early online, doi: 10.1175/BAMS-D-18-0042.1.
6. F.S.R. Pausata and **S.J. Camargo**, 2019. Tropical cyclone activity affected by volcanically induced ITCZ shifts. *Proc. Natl. Acad. Sci.*, **16**, 7732-7737, 10.1073/pnas.1900777116.
7. A. Seth, A. Giannini, M. Rojas, S.A. Rauscher, S. Bordoni, D. Singh, and **S.J. Camargo**, 2019. Monsoon responses to climate changes - Connecting past, present and future. *Curr. Clim. Change Rep.*, **5**, 63-79, doi:10.1007/s40641-019-00125-y.
8. A.H. Sobel, C.-Y. Lee, **S.J. Camargo**, K. Mandli, K. Emanuel, P. Mukhopadhyay, and M. Mahakur, 2019. Tropical cyclone hazard to Mumbai in the recent historical climate. *Mon. Wea. Rev.*, early online, doi: 10.1175/MWR-D-18-0419.1.
9. M. Ting, J.P. Kossin, **S.J. Camargo**, and C. Li, 2019. Past and future hurricane intensity change along the U.S. East coast. *Sci. Rep.*, in press, doi: 10.1038/s41598-019-44252-w.
10. L. Trenary, T. DelSole, **S.J. Camargo**, and M.K. Tippett, 2019. Are mid-20th century forced changes in North Atlantic hurricane potential intensity detectable? *Geophys. Res. Lett.* **46**, 3378-3386, doi:10.1029/2018GL081725.
11. A.S. Daloz and **S.J. Camargo**, 2018. Is the poleward migration of tropical cyclone maximum intensity associated with a poleward migration of tropical cyclone genesis? *Clim. Dyn.*, **50**, 705-715, doi:10.1007/s00382.

12. L. Gualtieri, **S.J. Camargo**, S. Pascale, F.M.E. Pons, and G. Ekström, 2017. The persistent signature of tropical cyclones in ambient seismic noise. *Earth Planet. Sci. Lett.*, **484**, 287-294, doi: 10.1016/j.epsl.2017.12.026.
13. D. Kim, Y. Moon, **S.J. Camargo**, A.A. Wing, A.H. Sobel, H. Murakami, G.A. Vecchi, M. Zhao and E. Page, 2018. Process-oriented diagnosis of tropical cyclones in high-resolution GCMs. *J. Climate*, **31**, 1685-1702, doi: 10.1175/JCLI-D-17-0269.1.
14. C.-Y. Lee, **S.J. Camargo**, F. Vitart, A.H. Sobel, and M.K. Tippett, 2018. Sub-seasonal tropical cyclone genesis prediction and MJO in the S2S dataset. *Wea. Forecasting*, **33**, 967-988, doi: 10.1175/WAF-D-17-0165.1.
15. C.-Y. Lee, M.K. Tippett, A.H. Sobel, and **S.J. Camargo**, 2018. An environmentally forced tropical cyclone hazard model. *J. Adv. Model. Earth Syst.*, **10**, 233-241, doi: 10.1002/2017MS001186.
16. C.M. Patricola, **S.J. Camargo**, P.J. Klotzbach, R. Saravanan, and P. Chang, 2018. The influence of ENSO flavors on western North Pacific tropical cyclone activity. *J. Climate*, **31**, 5395-5416, doi: 10.1175/JCLI-D-17-0678.1.
17. H.A. Ramsay, S.S. Chand, and **S.J. Camargo**, 2018. A statistical assessment of Southern Hemisphere tropical cyclone tracks in climate models. *J. Climate*, **31**, 10081-10104, doi: 10.1175/JCLI-D-18-0377.1.
18. Y. Shen, Y. Sun, **S.J. Camargo**, Z. Zhong, 2018. A quantitative method to evaluate tropical cyclone tracks in climate models. *J. Atmos. Oceanic Technol.*, **35**, 1807-1818, doi: 10.1175/JTECH-D-18-0056.1.
19. M. Boudreault, L.-P. Caron, and **S.J. Camargo**, 2017. Reanalysis of climate influences on Atlantic tropical cyclone activity using cluster analysis. *J. Geophys. Res.*, **122**, 4258-4280 doi: 10.1002/2016JD026103.
20. J.P. Duvel, **S.J. Camargo**, and A.H. Sobel, 2017. Role of convection scheme in modeling initiation and intensification of tropical depressions over the North Atlantic. *Mon. Wea. Rev.*, **145** 1495-1509, doi:10.1175/MWR-D-16-0201.1
21. J. Nakamura, **S.J. Camargo**, A.H. Sobel, N. Henderson, K.A. Emanuel, A. Kumar, T.E. LaRow, H. Murakami, M.J. Roberts, E. Scoccimarro, P.L. Vidale, H. Wang, M.F. Wehner, and M. Zhao, 2017. Western North Pacific tropical cyclone model tracks in present and future climates. *J. Geophys. Res.*, **122**, 9721-9744, doi: 10.1002/2017JD027007.
22. Y. Sun, Z. Zhong, T. Li, L. Yi, **S.J. Camargo**, Y. Hu, K. Liu, H. Chen, Q. Liao, and J. Shi, 2017. Impact of ocean warming on tropical cyclone track over the western North Pacific: A numerical investigation based on two case studies. *J. Geophys. Res.*, **122**, 8617-8630, doi: 10.1002/2017JD026959.
23. **S.J. Camargo** and A. Seth, 2016. Hottest summers the new normal. *Env. Res. Lett.*, **11**, 081001, doi: 10.1088/1748-9326/11/8/081001.

24. **S.J. Camargo**, A.H. Sobel, A.D. Del Genio, J.A. Jonas, M. Kelley, Y. Lu, D.A. Shaevitz, and N. Henderson, 2016. Tropical cyclones in the GISS ModelE2. *Tellus A*, **68**, 31494, doi: 10.3402/tellusa.v68.31494.
25. **S.J. Camargo** and A.A. Wing, 2016. Tropical cyclones in climate models. *WIREs Climate Change*, **7**, 211-237, doi: 10.1002/wcc373.
26. S.D. Ditchek, W.R. Boos, **S.J. Camargo**, and M.K. Tippett, 2016. A genesis index for monsoon disturbances. *J. Climate*, **29**, 5189-5203, doi:10.1175/JCLI-D-15-0704.1.
27. R. Han, H. Wang, Z.-Z. Hu, A. Kumar, W. Li, L. N. Long, J.-K. E. Schemm, P. Peng, W. Wang, D. Si, X. Jia, M. Zhao, G. A. Vecchi, T. E. LaRow, Y.-K. Lim, S. D. Schubert, **S.J. Camargo**, N. Henderson, J. A. Jonas, and K. J. E. Walsh, 2016. An assessment of multi-model simulations on the variability of western North Pacific tropical cyclones and its association with ENSO. *J. Climate*, **29**, 6401-6423, doi: 10.1175/JCLI-D-15-0720.1.
28. J.P. Kossin, K.A. Emanuel, and **S.J. Camargo**, 2016. Past and projected changes in western North Pacific tropical cyclone exposure. *J. Climate*, **29**, 5725-5739, doi: 10.1175/JCLI-D-16-0076.1.
29. C.-Y. Lee, M.K. Tippett, A.H. Sobel, and **S.J. Camargo**, 2016. Rapid intensification and the bimodal distribution of tropical cyclone intensity. *Nature Comm.*, **7**, 10625, doi: 10.1038/ncomms10625.
30. C.-Y. Lee, M.K. Tippett, A.H. Sobel, and **S.J. Camargo**, 2016. Autoregressive modeling for tropical cyclone intensity climatology. *J. Climate* **29**, 7815-7830 doi: 10.1175/JCLI-D-15-0909.1.
31. L.M. Polvani, **S.J. Camargo**, and R.R. Garcia, 2016. The importance of the Montreal Protocol in mitigating the potential intensity of tropical cyclones. *J. Climate*, **29**, 2275-2289, doi: 10.1175/JCLI-D-15-0232.1.
32. A.H. Sobel, **S.J. Camargo**, A.G. Barnston, and M.K. Tippett, 2016. Northern hemisphere tropical cyclones during the quasi-El Niño of late 2014. *Nat. Hazards*, **83**, 1717-1729, doi: 10.1007/s11069-016-2389-7.
33. A.H. Sobel, **S.J. Camargo**, T.M. Hall, C.-Y. Lee, M.K. Tippett, and A.A. Wing, 2016. Human influence on tropical cyclone intensity. *Science*, **353**, 242-246, doi: 10.1126/science.aaf6574.
34. K.J.E. Walsh, J.L. McBride, P.J. Klotzbach, Balachandran, **S.J. Camargo**, G. Holland, T.R. Knutson, J. Kossin, T.-C. Lee, A. Sobel, M. Sugi, 2016. Tropical cyclones and climate change, *WIREs Climate Change*, **7**, 65-89, doi: 10.1002/wcc371.
35. A.A. Wing, **S.J. Camargo**, and A.H. Sobel, 2016. Role of radiative-convective feedbacks in spontaneous tropical cyclogenesis in idealized numerical simulations. *J. Atmos. Sci.*, **73**, 2633-2642, doi: 10.1175/JAS-D-15-0380.1.

36. J. Yoo, J. Galewsky, **S.J. Camargo**, R. Korty, and R. Zamora, 2016. Dynamical downscaling of tropical cyclones from CCSM4 simulations of the Last Glacial Maximum. *J. Adv. Model. Earth Sys.*, **8**, 1229-1247, doi: 10.1002/2016MS000685.
37. L.-P. Caron, M. Boudreault, and **S.J. Camargo**, 2015. On the variability and predictability of eastern North Pacific tropical cyclone activity. *J. Climate*, **28**, 9678-9696, doi: 10.1175/JCLI-D-15-0377.1.
38. A.S. Daloz, **S.J. Camargo**, J.P. Kossin, K. Emanuel, M. Horn, J.A. Jonas, D. Kim, T. LaRow, Y.-K. Lim, C.M. Patricola, M. Roberts, E. Scoccimarro, D. Shaevitz, P.L. Vidale, H. Wang, M. Wehner, and M. Zhao, 2015. Cluster analysis of explicitly and downscaled simulated North Atlantic tropical cyclone track, *J. Climate*, **28**, 1333-1361, doi: 10.1175/JCLI-D-13-00646.1 .
39. J.G. Dwyer, **S.J. Camargo**, A.H. Sobel, M. Biasutti, K.A. Emanuel, G.A. Vecchi, M. Zhao, and M.K. Tippett, 2015. Projected 21st century changes in the length of the tropical cyclone season, *J. Climate*, **28**, 6181-6192, doi: 10.1175/JCLI-D-14-00686.1.
40. C.-Y. Lee, M.K. Tippett, **S.J. Camargo**, and A.H. Sobel, 2015. Probabilistic prediction of tropical cyclone intensity from a multiple-linear regression model, *Mon. Wea. Rev.*, **143**, 933-954, doi: 10.1175/MWR-D-14-000171.1.
41. A. Seth, K. Fernandes, and **S. J. Camargo**, 2015. Two summers of São Paulo drought: Origins in the western tropical Pacific. *Geophys. Res. Lett.*, **42**, 10816-10823, doi: 10.1002/2015GL066314.
42. M. Ting, **S.J. Camargo**, C. Li, and Y. Kushnir, 2015. Natural and forced North Atlantic hurricane potential intensity changes in CMIP5 models, *J. Climate*, **28**, 3926-3942, doi: 10.1175/JCLI-D-14-00520.1.
43. K.J.E. Walsh, **S.J. Camargo**, G.A. Vecchi, A.S. Daloz, J. Elsner, K. Emanuel, M. Horn, Y.-K. Lim, M. Roberts, C. Patricola, E. Scoccimarro, A.H. Sobel, S. Strazzo, G. Villarini, M. Wehner, M. Zhao, J. Kossin, T. LaRow, K. Oouchi, S. Schubert, H. Wang, J. Bacmeister, P. Chang, F. Chauvin, C. Jablonowski, H. Murakami, T. Ose, K.A. Reed, R. Saravanan, Y. Yamada, C.M. Zarzycki, P.L. Vidale, J.A. Jonas, and N. Henderson, 2015. Hurricanes and climate: the U.S. CLIVAR Working Group on hurricanes. *Bull. Amer. Meteor. Soc.*, **96**, 997-1017, doi: 10.1175/BAMS-D-13-00242.1. Erratum, *Bull. Amer. Meteor. Soc.*, **96**, 1440, doi: 10.1175/BAMS-D-15-00232.1.
44. **S.J. Camargo**, M.K. Tippett, A.H. Sobel, G.A. Vecchi, and M. Zhao, 2014. Testing the performance of tropical cyclone genesis indices in future climates using the HIRAM model. *J. Climate* **27**, 9171-9196 doi: 10.1175/JCLI-D-13-00505.1.
45. M. Horn, K. Walsh, M. Zhao, **S.J. Camargo**, E. Scoccimarro, H. Murakami, H. Wang, A. Kumar, D.A. Shaevitz, J.A. Jonas, K. Oouchi, 2014. Tracking scheme dependence of simulated tropical cyclone response to idealized climate simulations. *J. Climate* **27**, 9197-9213, doi: 10.1175/JCLI-D-14-00200.1.

46. E.D. Maloney, **S.J. Camargo**, E. Chang, B. Colle, R. Fu, K.L. Geil, Q. Hu, X. Jiang, N. Johnson, K.B. Karnauskas, J. Kinter, B. Kirtman, S. Kumar, B. Langenbrunner, K. Lombardo, L.N. Long, A. Mariotti, J.E. Meyerson, K.C. Mo, J.D. Neelin, Z. Pan, R. Seager, Y. Serra, A. Seth, J. Sheffield, J. Stroeve, J. Thibeault, S.-P. Xie, C. Wang, B. Wyman, M. Zhao, 2014. North American Climate in CMIP5 Experiments: Part III: Assessment of 21st Century Projections, *J. Climate*, **27**, 2230-2270, doi: 10.1175/JCLI-D-13-00273.1.
47. D.A. Shaevitz, **S.J. Camargo**, A.H. Sobel, J.A. Jonas, D. Kim, A. Kumar, T.E. LaRow, Y.-K. Lim, H. Murakami, K. Reed, M.J. Roberts, E. Scoccimarro, P.L. Vidale, H. Wang, M.F. Wehner, M. Zhao, and N. Henderson, 2014. Characteristics of tropical cyclones in high-resolution models in the present climate, *J. Adv. Model. Earth Sys.*, **6**, 1154-1172, doi: 10.1002/2014MS000372.
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49. M.K. Tippett, A.H. Sobel, **S.J. Camargo**, and J.T. Allen, 2014. An empirical relation between U.S. tornado activity and monthly environmental parameters. *J. Climate*, **27**, 2983-2999, doi: 10.1175/JCLI-D-13-00345.1.
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51. S. Wang, **S.J. Camargo**, A.H. Sobel, and L.M. Polvani, 2014. Impact of the tropopause temperature on the intensity of tropical cyclones - an idealized study using a mesoscale model. *J. Atmos. Sci.* **71**, 4333-4348, doi: 10.1175/JAS-D-14-0029.1.
52. **S.J. Camargo**, 2013. Global and regional aspects of tropical cyclone activity in the CMIP5 models, *J. Climate*, **26**, 9880-9902, doi: 10.1175/JCLI-D-12-00549.1.
53. **S.J. Camargo**, M. Ting, and Y. Kushnir, 2013. Influence of local and remote SST on Atlantic potential intensity, *Clim. Dyn.*, **40**, 1515-1529, doi: 10.1007/s00382-012-1536-4.
54. A. Seth, S.A. Rauscher, M. Biasutti, A. Giannini, **S.J. Camargo**, and M. Rojas, 2013. CMIP5 projected changes in the annual cycle of precipitation, *J. Climate*, **26**, 7328 - 7351, doi:10.1175/JCLI-D-12-00726.1.
55. J. Sheffield, **S.J. Camargo**, R. Fu, Q. Hu, X. Jiang, K.B. Karnauskas, S.T. Kim, J. Kinter, S. Kumar, B. Langenbrunner, E.D. Maloney, A. Mariotti, J.E. Meyerson, N. Johnson, J.D. Neelin, S. Nigam, Z. Pan, A. Ruiz-Barradas, R. Seager, Y.L. Serra, D.-Z. Sun, C. Wang, S.-P. Xie, J.-Y. Yu, T. Zhang, M. Zhao, 2013. North American climate in CMIP5 experiments. Part II: Evaluation of 20th century intra-seasonal to decadal variability, *J. Climate*, **26**, 9247-9290, doi:10.1175/JCLI-D-12-00593.

56. J.D. Woodruff, J.L. Irish, and **S.J. Camargo**, 2013. Coastal flooding by tropical cyclones and sea level rise. *Nature*, **504**, 44-52, doi: 10.1038/nature12855.
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60. R.L. Korty, **S.J. Camargo**, and J. Galewsky, 2012. Variations in tropical cyclone genesis factors in simulations of the Holocene Epoch, *J. Climate*, **25**, 8196 - 8211, doi: 10.1175/JCLI-D-12-00033.1.
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71. **S.J. Camargo** and A.G. Barnston, 2009. Experimental seasonal dynamical forecasts of tropical cyclone activity at IRI, *Wea. Forecasting*, **24**, 472-491.
72. **S.J. Camargo**, M.C. Wheeler, and A.H. Sobel, 2009. Diagnosis of the MJO modulation of tropical cyclogenesis using an empirical index, *J. Atmos. Sci.*, **66**, 3061-3074.
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