

Suzana J. Camargo

Lamont-Doherty Earth Observatory

Columbia University

61 Route 9W, 206D Oceanography

Palisades, NY 10964-8000

Phone: (845) 365-8640

Email: suzana@ldeo.columbia.edu

www.ldeo.columbia.edu/~suzana/index.html

ORCID: 0000-0002-0802-5160, *Researcher ID*: C-6106-2009

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, Lamont Campus, 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.*

Associate Research Scientist, March 2003 - June 2007,

Senior Staff Associate, June 1999 - February 2003,

International Research Institute for Climate and Society (IRI),

Columbia University, Lamont Campus, 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

(thesis developed at the Max-Planck Institute for Plasma Physics, Garching, Germany).

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. C.-Y. Lee, M.K. Tippett, A.H. Sobel, and **S.J. Camargo**, 2018. An environmentally forced tropical cyclone hazard model. *Journal of Advances in Modeling Earth Systems*, doi: 10.1002/2017MS001186.
2. 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.*, early online, doi:10.1007/s00382.
3. 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. *Journal of Climate*, early online, doi: 10.1175/JCLI-D-17-0269.1.
4. 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 and Planetary Science Letters*, **484**, 287-294, doi: 10.1016/j.epsl.2017.12.026.
5. 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.
6. 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
7. 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.
8. 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.
9. **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.
10. **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.
11. **S.J. Camargo** and A.A. Wing, 2016. Tropical cyclones in climate models. *WIREs Climate Change*, **7**, 211-237, doi: 10.1002/wcc373.

12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.

24. 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 .
25. 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.
26. 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.
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28. 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.
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30. **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.
31. 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.
32. 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.

33. 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.
34. B. Tang, and **S.J. Camargo**, 2014. Environmental control on tropical cyclones in CMIP5: A ventilation perspective. *J. Adv. Model. Earth Sys.*, **6**, 115-128, doi: 10.1002/2013MS000294.
35. 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.
36. H. Wang, L. Long, A. Kumar, W. Wang, J.-K. E. Schemm, M. Zhao, G.A. Vecchi, T.E. LaRow, Y.-K. Lim, S.D. Schubert, D.A. Shaevitz, **S.J. Camargo**, N. Henderson, D. Kim, J.A. Jonas, and K.J.E. Walsh, 2014. How well do global climate models simulate the variability of Atlantic tropical cyclones associated with ENSO? *J. Climate*, **27**, 5673-5692, doi: 10.1175/JCLI-D-13-00625.1.
37. 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.
38. **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.
39. **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.
40. 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.
41. 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.
42. 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.
43. M. Biasutti, A.H. Sobel, **S.J. Camargo**, and T.T. Creyts, 2012. Projected changes in the physical climate of the Gulf Coast and Caribbean, *Climatic Change*, **112**, 819-845, doi: 10.1007/s10584-011-0255-y.

44. D. Kim, A.H. Sobel, A. Del Genio, Y. Chen, **S.J. Camargo**, M.-S. Yao, M. Kelley, and L. Nazarenko, 2012. The tropical subseasonal variability simulated in the NASA GISS general circulation model, *J. Climate*, **25**, 4641-4659, doi: 10.1175/JCLI-D-11-00447.1.
45. R.L. Korty, **S.J. Camargo**, and J. Galewsky, 2012. Tropical cyclone genesis factors in simulations of the Last Glacial Maximum, *J. Climate*, **25**, 4348-4365, doi: 10.1175/JCLI-D-11-00517.1
46. 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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48. H.A. Ramsay, **S.J. Camargo**, and D. Kim, 2012. Cluster Analysis of tropical cyclone tracks in the southern hemisphere, *Clim. Dyn.*, **39**, 897-917, doi: 10.1007/s00382-011-1225-8.
49. M.K. Tippett, A.H. Sobel, and **S.J. Camargo**, 2012. Association of monthly U.S. tornado occurrence with large-scale atmospheric parameters, *Geophys. Res. Lett.*, **39**, L02801, doi: 10.1029/2011GL050368.
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51. A. Seth, S.A. Rauscher, M. Rojas, A. Giannini, and **S.J. Camargo**, 2011. Enhanced spring convective barrier for monsoons in a warmer world? *Climatic Change*, **104**, 403-414, doi: 10.1007/s10584-010-9973-8. Nature Climate Change research highlight: *Impacts: Monsoon summer*, S. Barley, *Nature Climate Change*, 30 November 2010, doi:10.1038/nclimate1018 Research highlights.
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53. M.K. Tippett, **S.J. Camargo**, and A.H. Sobel, 2011. A Poisson regression index for tropical cyclone genesis and the role of large-scale vorticity in genesis, *J. Climate*, **24**, 2335-2357, doi: 10.1175/2010JCLI3811.1.
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55. J.P. Kossin, **S.J. Camargo**, and M. Sitkowski, 2010. Climate modulation of North Atlantic hurricane tracks, *J. Climate*, **23**, 3057-3076, doi: 10.1175/2010JCLI3497.1.
56. M. Biasutti, A.H. Sobel, and **S.J. Camargo**, 2009. The role of the Sahara low in Sahel rainfall variability and change in the CMIP3 models, *J. Climate*, **22**, 5755-5771.

57. **S.J. Camargo** and A.G. Barnston, 2009. Experimental seasonal dynamical forecasts of tropical cyclone activity at IRI, *Wea. Forecasting*, **24**, 472-491.
58. **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.
59. J.P. Kossin and **S.J. Camargo**, 2009. Hurricane track variability and secular potential intensity trends. *Climatic Change*, **97**, 329-337.
60. B. Lyon and **S.J. Camargo**, 2009. The seasonally-varying influence of ENSO on rainfall and tropical cyclone activity in the Philippines, *Clim. Dyn.* **32**, 125-141.
61. J. Nakamura, U. Lall, Y. Kushnir, and **S.J. Camargo**, 2009. Classifying North Atlantic tropical cyclones tracks by their mass moments, *J. Climate*, **22**, 5481-5494.
62. **S.J. Camargo**, A.W. Robertson, A.G. Barnston, and M. Ghil, 2008. Clustering of eastern North Pacific tropical cyclone tracks: ENSO and MJO effects, *Geochem., Geophys. and Geosyst.*, **9**, Q06V05.
63. **S.J. Camargo**, K.A. Emanuel and A.H. Sobel, 2007. Use of a genesis potential index to diagnose ENSO effects on tropical cyclone genesis, *J. Climate* **20**, 4819 - 4834.
64. **S.J. Camargo**, H. Li, and L. Sun, 2007. Feasibility study for downscaling seasonal tropical cyclone activity using the Regional Spectral Model, *Int. J. Climatol.* **27**, 311-325.
65. **S.J. Camargo**, A.W. Robertson, S.J. Gaffney, P. Smyth, and M. Ghil, 2007. Cluster analysis of typhoon tracks, Part I: General properties, *J. Climate* **20**, 3635 - 3653.
66. **S.J. Camargo**, A.W. Robertson, S.J. Gaffney, P. Smyth, and M. Ghil, 2007. Cluster analysis of typhoon tracks, Part II: Large scale circulation and ENSO, *J. Climate* **20**, 3654 - 3676.
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68. S.J. Gaffney, A.W. Robertson, P. Smyth, **S.J. Camargo**, and M. Ghil, 2007. Probabilistic clustering of extratropical cyclones using regression mixture models, *Clim. Dyn.* **29**, 423-440.
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73. S.A. Rauscher, A. Seth, J.-H. Qian, and **S.J. Camargo**, 2006. Domain choice in an experimental nested modeling prediction system for South America, *Theor. Appl. Climatol.*, **86**, 229-246.
74. **S.J. Camargo**, A.G. Barnston and S.E. Zebiak, 2005. Statistical assessment of tropical cyclone activity in atmospheric general circulation models, *Tellus* **57A**, 589-604.
75. **S.J. Camargo** and A.H. Sobel, 2005. Western North Pacific tropical cyclone intensity and ENSO, *J. Climate* **18**, 2996-3006.
76. W.A. Landman, A. Seth and **S.J. Camargo**, 2005. The effect of regional climate model domain on the simulation of tropical cyclone-like vortices in the southwestern Indian Ocean, *J. Climate* **18**, 1263-1274.
77. A.H. Sobel and **S.J. Camargo**, 2005. Influence of western North Pacific tropical cyclones on their large-scale environment, *J. Atmos. Sci.* **62**, 3396-3407.
78. **S.J. Camargo** and A.H. Sobel, 2004. Formation of tropical storms in an atmospheric general circulation model. *Tellus* **56A**, 56-6.
79. **S.J. Camargo** and S.E. Zebiak, 2002. Improving the detection and tracking of tropical cyclones in atmospheric general circulation models, *Wea. Forecasting* **17**, 1152-1162 (2002). Summary in Nowcast, Papers of Note, *Bull. Amer. Meteor. Soc.* **84**, 181-182 (2003).
80. M.C.R. Andrade, G.O. Ludwig, and **S.J. Camargo**, 2000. Self-consistent equilibrium calculation through a direct variational technique in tokamak plasmas, *Plasma Phys. Control. Fusion* **42**, 1269-1289.
81. **S.J. Camargo**, M.K. Tippett, and I.L. Caldas, 2000. Nonmodal energetics of electromagnetic drift waves, *Phys. Plasmas* **7**, 2849-2855.
82. **S.J. Camargo**, M.K. Tippett, and I.L. Caldas, 1998. Nonmodal energetics of resistive drift waves, *Phys. Rev. E* **58**, 3693-3704.
83. **S.J. Camargo**, M.K. Tippett, and I.L. Caldas, 1998. Nonmodal linear analysis of drift-wave turbulence models, *Czech. J. Phys.* **48**, 189-194, Suppl. 2.
84. **S.J. Camargo**, B.D. Scott, and D. Biskamp, 1996. The influence of magnetic fluctuations on collisional drift-wave turbulence, *Phys. Plasmas* **3**, 3912-3931.
85. **S.J. Camargo**, D. Biskamp, and B.D. Scott, 1995. Resistive drift-wave turbulence, *Phys. Plasmas* **2**, 48-62.

86. D. Biskamp, **S.J. Camargo**, and B.D. Scott, 1994. Spectral properties and statistics of resistive drift-wave turbulence, *Phys. Letters A* **186**, 239-244.
87. **S.J. Camargo** and H. Tasso, 1992. Renormalization group in magnetohydrodynamic turbulence, *Phys. Fluids* **B4**, 1199-1212.
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89. **S.J. Camargo** and I.L. Caldas, 1991. Average magnetic surfaces in tokamaks, *Plasma Phys. Contr. Fusion* **33**, 573-581.
90. **S.J. Camargo** and H. Tasso, 1990. Self-similar statistics in MHD turbulence, *Z. Naturforsch.* **45a**, 603-608.

Book Chapters

1. **S.J. Camargo** and S.M. Hsiang, 2015. Tropical Cyclones: From the influence of climate to their socio-economic impacts, in *Extreme Events: Observations, Modeling and Economics*, M. Chaves, M. Ghil and J. Urrutia-Fucugauchi, editors, AGU Monograph, Chapter 18, pp. 303-342, Willey-Blackwell, ISBN: 978-1-119-15701-4.
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