Marlos Goes

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(a) Professional Preparations

Educational Institution	*Major*	*Degree*	*Degree Year*
University of Campinas, Brazil	Physics	B.Sc / Licenciate	1999
University of Sao Paulo, Brazil	Oceanography	M.Sc.	2001
University of Reading, UK	Oceanography	Doctorate fellow	2005
University of Sao Paulo, Brazil	Oceanography	Ph.D.	2006
Penn State University, USA	Geophysics	Post-doc.	2009

(b) Appointments

2010 - present	Assistant Research Scientist, Cooperative Institute for Marine and Atmospheric Studies, University of Miami.
2009-2010	Oceanographic Consultant, Applied Science Associate, Sao Paulo, Brazil.
2007-2009	Post-doctoral fellow, The Pennsylvania State University.
2007	Visitor Scientist, POGO-SCOR scholarship, University of Maryland.
2004-2005	Visitor research Assistant, CAPES scholarship, University of Reading, UK.
2000-2006	Graduate Research Assistant, University of Sao Paulo, Brazil.

(c) Research Interests

- Meridional overturning circulation.
- Data analysis and uncertainty estimation.
- Large-scale ocean circulation.
- Tropical Atlantic Variability.
- Climate change and climate modeling.

(d) Recent Publications

Peer-Reviewed publications: 31; H-index: 9.0 (source: www.researcherid.com)

Goes, M. , Murphy, L. N. and Clement, A. C. (2019). The Stability of the AMOC During Heinrich Events Is Not Dependent on the AMOC Strength in an Intermediate Complexity Earth System Model Ensemble. Paleoceanography and Paleoclimatology. doi:10.1029/2019PA003580

Volkov, D. L., Lee, S.-K., Domingues, R., Zhang, H., & **Goes, M.** (2019). Interannual sea level variability along the southeastern seaboard of the United States in relation to the gyre-scale heat divergence in the North Atlantic. *Geophys. Res. Lett.*, 46. https://doi.org/10.1029/2019GL083596.

Goes, M., Cirano, M., Mata, M. M., & Majumder, S. (2019). Long-term monitoring of the Brazil Current transport at 22°S from XBT and altimetry data: Seasonal, interannual, and extreme variability. *Journal of Geophysical Research: Oceans*, 124. https://doi.org/10.1029/2018JC014809.

Majumder, S., **Goes, M.**, Polito, P. S., Lumpkin, R., Schmid, C., & Lopez, H. (2019). Propagating modes of variability and their impact on the western boundary current in the South Atlantic. *Journal of Geophysical Research: Oceans*, 124, 3168– 3185. https://doi.org/10.1029/2018JC014812.

Lee, S-K., R. Lumpkin, M. Baringer, C. Meinen, **M. Goes**, S. Dong, H. Lopez, S. Yeager, 2018: Global meridional overturning circulation inferred from a data-constrained ocean & sea-ice model, *Geophysical Research Letters*, 46, https://doi.org/10.1029/2018GL080940.

Goes, M., J. Cristophersen, S. Dong, G. Goni, and M. Baringer, 2018: An updated estimate of salinity for the Atlantic Ocean sector using Temperature-Salinity relationships, J. Ocean. Atmos. Tech., 35, 1771-1784, https://doi.org/10.1175/JTECH-D-18-0029.1.

Murphy, L. N., **Goes, M.**, and A. Clement, 2017: Role of African dust in the Atlantic meridional overturning circulation during Heinrich events, *Paleoceanography*, 32, 1291-1308. https://doi.org/10.1002/2017PA003150.

Goes M., E. Babcock, F. Bringas, P. Ortner, and G. Goni, 2017: The impact of improved thermistor calibration on the Expendable Bathythermograph profile data, *Journal of Oceanic and Atmospheric Technology*, 34, 1947-1961, https://doi.org/10.1175/JTECH-D-17-0024.1.

Lima, M., M. Cirano, M. Mata, **M. Goes**, G. Goni, and M. O. Baringer, 2016: An assessment of the Brazil Current baroclinic structure and variability near 22°S in distinct Ocean Forecasting and Analysis systems, *Ocean Dynamics*, 66:893, doi:10.1007/s10236-016-0959-6.

Li, H., R. L. Sriver, and **M. Goes**, 2016: Modeled Sensitivity of the Northwestern Pacific upper-ocean response to tropical cyclones in a fully-coupled climate model with varying ocean grid resolution , *J. Geophys. Res. - Oceans*, 121, 586-601, doi: 10.1002/2015JC011226.

Cheng, L., J. Abraham, G. Goni, T. Boyer, S. Wijffels, R. Cowley, V. Gouretski, F. Reseghetti, S. Kizu, S. Dong, F. Bringas, **M. Goes**, L. Houpert, J. Sprintall, and J. Zhu, 2016: XBT Science: Assessment of instrumental biases and errors , Bulletin of the American Meteorological Society, 97, 924-933, doi: http://dx.doi.org/10.1175/BAMS-D-15-00031.1.

(e) Advising

- Postdoctoral advisor: Dr. Cyril Germineau, March 1, 2019 – current.
  Dr. Sudip Majumder. December 1, 2017- September 1, 2018.
  Dr. Yanyun Liu. September, 1, 2015 - February, 1, 2017.
- Professional Master: Vinicius Webber. September-December, 2015.
- Summer Intern: Steve Marrero, Marine & Science Technology Senior High. July-August, 2017.

(f) Synergistic activities

- Presenter at the *NOAA/AOML Open House* for the local schools and general public, May 24, 2013; May, 15, 2015; March 18, 2017; May 12 2017; June 8, 2019.
- Member of the XBT International Science Team, CLIVAR USAMOC Task Team 3: AMOC Mechanisms and Predictability, and USAMOC Task Team 5: PaleoAMOC.
- Member of the AOML's *Buoys and Gulls* employee organization (2012-present).
- Reviewer for: Research proposals (NOAA, FACEPE/Brazil, NSF), and research articles (*J. Geophys. Res., Climatic Change, Geophys. Res. Lett., J. Atmos. Ocean Tech., Earth System Dyn., Clim. Dynamics, TAO, J. Climate, ERL, J. Clim.*).