



# Tiago Carrilho Bilo

*Curriculum Vitae*

## **Education**

- 2014–Present **Doctor of Philosophy student in METEOROLOGY AND PHYSICAL OCEANOGRAPHY**, *University of Miami*, US, Rosenstiel School of Marine and Atmospheric Science.
- 2013–2014 **Master of Science student in OCEANOGRAPHY**, *University of São Paulo*, Brazil, *Latter grade A in all courses*.  
With exchange period at Massachusetts Institute of Technology
- 2008–2012 **Bachelor of Science in OCEANOGRAPHY**, *University of São Paulo*, Brazil, *GPA – 8.1*.  
Thesis: "On the Brazil Current System in the Santos Bifurcation area (25S): Direct velocity measurements"

## **Research Interests**

How energy, mass and other water properties are transported and modified by large and mesoscale processes (eddies, boundary currents, etc); Deep ocean circulation; dynamics and variability of the MOC

## **Publications**

**Bilo, T. C.**; da Silveira, I. C. A., Belo, W. C., Castro, B. M., Piola, A. R., 2014: "Methods for estimating the velocities of the Brazil Current in the pre-salt reservoir area off southeast Brazil (23S-26S)", *Ocean Dynamics*, doi: 10.1007/s10236-014-0761-2.

## **Poster Presentations**

### **International Conferences attended**

**Bilo, T. C.**, Silveira, I. C. A., Rocha, C. B., Belo, W. C., 2014: "ON THE BRAZIL CURRENT THICKENING IN SANTOS BASIN (23-28S)". In: *Ocean Sciences Meeting*, 2014, Honolulu.

**Bilo, T. C.**; Paloczy, A., Rocha, C. B., Silveira, I. C. A., Ceccopieri, W., 2012: "ON THE BRAZIL CURRENT SYSTEM OFF SOUTHEAST BRAZIL (22S): TOP - BOTTOM DIRECT VELOCITY MEASUREMENTS". In: *Ocean Sciences Meeting*, 2012, Salt Lake City.

Paloczy, A.; **Bilo, T. C.**, Silveira, I. C. A., Calado, L., Mattos, R., Soutelino, R, G, Rocha, C. B., Castro, B. M., 2012: "THE CABO FRIO COASTAL DOWNWELLING". In: *Ocean Sciences Meeting*, 2012, Salt Lake City.

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↗ <http://tiagobilo.github.io>

*PhD Student of Meteorology and Physical Oceanography – University of Miami, US*

## Field Experience

During the cruises listed below, I actively participated in instrument operation (XBT, CTD, ADCP, LADCP), near-real time data processing, and adaptive sampling. I also co-authored the cruises and data processing reports.

- November 2013 "CERES Experiment" – CERES V (Leg 3) cruise aboard R/V "Alpha-Crucis" (University of Sao Paulo) – Southwestern Atlantic (25S-31S); 9 days at sea. Chief scientist: Dr. Ilson Carlos A. da Silveira
- October 2012 "AMBES" – AMB 09 cruise aboard R/V "Seaward Johnson" (CP+) – Southwestern Atlantic (18S-23S); 18 days at sea. Chief scientist: Dr. Ilson Carlos A. da Silveira
- July 2010 "CERES Experiment" – CERES IV (Leg 2) cruise aboard R/V "Antares" (Brazilian Navy) – Southwestern Atlantic (20S-23S); 9 days at sea. Chief scientist: Dr. Wellington Ceccopieri Belo

## Relevant Academic Experiences

### Projects

- 2010–2012 "Brazilian Equatorial Continental Margin Characterization", *Primary Objective: Describe the meso and large-scale circulation of the Brazilian Equatorial Continental Margin, Function: Undergraduate Research Assistant, Attributions: Hydrographic and current (conventional currentmeters, Vessel Mounted ADCP) data analysis and interpretation.*

### Summer courses

- January 2013 "Circulacion y masas de agua en el Atlantico Sudoccidental", *Austral Summer Institute XIII*, held at University of Concepcion, Chile, **Instructor:** Dr. Alberto Ricardo Piola.

## Teaching Experience

- Fall 2011 Teaching Assistant for "Coastal and Estuarine Physical Oceanography" (Undergraduate) – University of Sao Paulo, Brazil. Instructor: Dr. Belmiro Mendes de Castro
- 2013 – 2014 Teacher for "Introduction to Matlab" (one week course during the STO 2013 and 2014)

## Awards

- 2012 "2012 top 3 BS theses presented at the Oceanographic Institute of USP"

## Computer Skills

- Programming C++, Shell script (bash), Python, Fortran 90  
Diagramming  $\text{\LaTeX}$   
Applications Matlab, GMT, HTML (basics)  
PE Models POM

## Languages

- Portuguese **Mother tongue**

- English **Fluent**

- Spanish **Intermediate** *Conversational fluency*

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