

ISABEL PORTO DA SILVEIRA

Oceanographer

PERSONAL INFORMATION

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EDUCATION HISTORY

DOCTORAL DEGREE: Meteorology – *Instituto Nacional de Pesquisas Espaciais* (INPE) (2010-2014).
Focus: The role of heat content on the subsistence of sea surface temperatures in the South Atlantic.
Funding: CAPES.

MASTER'S DEGREE: Meteorology – INPE (2008-2010). Focus: Study of oceanic and atmospheric anomalies in the Brazil-Malvinas Confluence. Funding: FAPESP.

UNDERGRADUATE MAJOR: Oceanology – *Universidade Federal do Rio Grande* (FURG) (2003/2007).
Focus: Study of Brazil-Malvinas variability and its importance to climate.

LANGUAGES:

Fluent in English and Portuguese; Competent in Spanish and French

PROFESSIONAL EXPERIENCE

Senior Research Associate 2 (2022-present) at Cooperative Institute for Marine and Atmospheric Studies (CIMAS) and at the Physical Oceanography Division (PhOD) of the Atlantic Oceanographic Meteorological Laboratory (AOML- NOAA). XBT and Glider Projects.

Post-doctoral research (2016-2018) at the University of Miami, Miami, FL, USA, under the supervision of P. Zuidema and B. Kirtman. Funding: Cooperative Project. Activities: Forecast models data analysis. Research Focus: Errors in numerical models for the Tropical Pacific.

Post-doctoral research (2014-2016) at the INPE, São José dos Campos, SP, Brazil. Funding: CAPES. Activities: numerical modeling and data analysis. Research Focus: South Atlantic Ocean and Austral Ocean teleconnections by air-sea interaction processes.

Doctoral Internship (2012-2013) at the *Université Pierre et Marie Curie* (UPMC), LOCEAN, Paris, France. Funding: CAPES. Activity: Altimetry data analysis.

Doctoral Internship (2011-2012) at the *Universidade Federal de Santa Maria* (UFSM), Santa Maria, RS, Brazil. Funding: CAPES. Activities: *In situ* data analysis and teach classes for the undergraduate course of Meteorology.

Undergraduate Internship (2007) at the *Centro de Previsão de Tempo e Estudos Climáticos* (CPTEC), INPE, *Cachoeira Paulista*, SP, Brazil. Activities: operational stage in groups of weather and climate prediction.

OPERATIONAL SYSTEMS / SOFTWARE

- Windows, Linux and Mac OS X
- Matlab®
- Microsoft Office Package
- GrADS
- Ferret (basic)
- LaTeX

DATA ACQUISITION AND ANALYSES

- Satellite imagery (altimetry)
- CTD (Conductivity Temperature and Depth)
- XBT (Expendable Bathythermograph)
- Radiosonde
- Numerical modeling (MOM, ROMS)

OCEANOGRAPHIC CRUISES: DATA COLLECTION

- OPERANTAR 34– Polar Navy Vessel *Almirante Maximiano* (H-41), 19-day cruise, transect between *Rio de Janeiro* (Brazil) and *Punta Arenas* (Chile), 2015.
- FORSA (*Following Ocean Rings in the South Atlantic Ocean*) – Polar Navy Vessel *Vital de Oliveira* (H-39), 20-day cruise, transect between *Capetown* (South Africa) and *Arraial do Cabo* (Brazil), 2015.
- OPERANTAR 29– Navy Vessel *Ary Rongel* (H-44), 7-day cruise, transect between *Ushuaia* (Argentina) and *Montevid u* (Uruguay), 2011.
- *Comiss o Oceanogr fica Trans-Atl ntico I* – Navy Vessel *Cruzeiro do Sul* (H-38), 30-day cruise, transect between *Rio de Janeiro* and *Cape Town* (South Africa), 2009.
- Oceanographic technics subject - *N.Oc. Atl ntico Sul*, 5-day cruise along the southern Brazilian coast, 2005.

PROFESSIONAL DEVELOPMENT

- Air-Sea Interaction Course 5911- “Special Topics in Oceanography”: June 2013.
- Pre-Antarctic training: 2011.
- Introduction to Regional Ocean Modeling System (ROMS): February 2011.
- Remote Sensing: Theory and Practice: November 2010.
- Surface-Atmosphere Interactions in the Environmental Changes Context h: March 2009.
- Numerical Forecasting Using BRAMS: June 2006.
- Consultancy and Environmental Management: May 2004.

PUBLICATIONS

- Agostine, C. S., Silveira, I. P., Polla, C.C. (2021). Scientific evolution of philosophical concepts of the origins of Universe and Life. *Archai* 31, e03116. https://doi.org/10.14195/1984-249X_31_16
- Giacomini, I. B., da Silveira, I. P. (2020). Engaging with the politics of water governance. *Mon es: Revista de Rela es Internacionais da UFGD*. <https://doi.org/10.30612/rmufgd.v8i15.11535>
- da Silveira, I. P., Zuidema, P., & Kirtman, B. (2019). Fast SST error growth in the southeast Pacific Ocean: comparison between high and low-resolution CCSM4 retrospective forecasts. *Climate Dynamics*. <https://doi.org/10.1007/s00382-019-04855-5>
- Silveira, I. P. and Pezzi, L. P. (2014) Sea surface temperature anomalies driven by local forcing in the Brazil-Malvinas Confluence. *Ocean Dyn.* *Doi:10.1007/s10236-014-0699-4*. <https://link.springer.com/article/10.1007/s10236-014-0699-4>
- Silveira, I. P.; Pezzi, L. P., Souza, R. B. (2010) Dois casos de ATSM analisados atrav s de balan o de calor parcial para o Atl ntico Sudoeste. *Ci ncia e Natura*, ISSN: 01008307,375-377,2010.