**Rigoberto F. Garcia - Curriculum Vitae**

RSMAS/CIMAS, University of Miami

PhOD-AOML

**EDUCATION**

M.Sc. Physical Oceanography, Center for Scientific Research and Higher Education of Ensenada (CICESE), Mexico, 1994.

B.Sc. Mathematics, Univ. of Havana, Cuba, 1987.

**PROFESSIONAL EXPERIENCE**

Senior Research Associate, RSMAS/CIMAS, Univ. of Miami. June 2012 – Present

Research Associate, RSMAS/CIMAS, Univ. of Miami. April 2004 – May 2012

**HONORS, AWARDS, AND FELLOWSHIPS**

Ocean Observing Team Award (RAPID-MOCHA-WBTS 26°N Team)

PhOD’s Science Paper Award, November 2014.

PhOD’s Special Recognition, November 2014.

AOML’s outstanding research paper for fiscal year 2011, June 2012.

US Department of Commerce 2007 Bronze Medal - Western Boundary Time Series as part of the MOC team.

ICTP Spring School on Geophysical Fluid Dynamics Fellowship, Italy, April-May, 1996.

SRE Graduate Research Fellowship, Mexico, 1991-1993.

**REFEREED JOURNAL PUBLICATIONS**

Graef, F, and R.F. Garcia (2021). Resonant interactions between Rossby modes in a straight coast and a channel. *Journal of Fluid Mechanics*, 918:A34, <https://doi.org/10.1017/jfm.2021.344>.

Volkov D.L**.**, R. Domingues, C.S. Meinen, R. Garcia, M. Baringer, G. Goni, & R. Smith (2020). [Inferring Florida Current transport from satellite altimetry](https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2020JC016763), *J. Geophys. Res. - Oceans*, 125, e2020JC016763, <https://doi.org/10.1029/2020JC016763>.

**Meinen, C.S.**, **Smith, R.H.**, and **Garcia, R. F.**, 2020: Evaluating pressure gauges as a potential future replacement for electromagnetic cable observations of the Florida Current transport at 27°N. Journal of Operational Oceanography, (doi: 10.1080/1755876X.2020.1780757.

Meinen, C. S., Johns, W. E., Moat, B. I., Smith, R. H., Johns, E. M., Rayner, D., et al. (2019). Structure and variability of

the Antilles Current at 26.5°N, Journal of Geophysical Research: Oceans, 124. <https://doi.org/10.1029/2018JC014836>

Garcia, R. F., and C. S. Meinen, Accuracy of Florida Current volume transport measurements at 27°N using multiple observational techniques, J. Atmos. Ocean. Tech., 10.1175/JTECH-D-13-00148.1, 2014.

Meinen, C. S., M. O. Baringer, and R. F. Garcia, "Florida Current Transport Variability: An Analysis of Annual and Longer-Period Signals", Deep Sea Res. I, 57 (7), 835-846, doi:10.1016/j.dsr.2010.04.001, 2010.

Garcia, R. and F. Graef, “The nonlinear self-interaction of a baroclinic Rossby mode in a channel and a gulf”, Dyn. Atmos. Oceans, 28, 139-155, 1998.

Garcia, R. and J. Ochoa, “Decay of a barotropic vortex in the f-plane”, Rev. Mex. Fis., 41, 533-555, 1995.

Victoria, I., R. Garcia and L. Nechvolodov, “Seasonal Heat Balance of the Active Oceanic Layer in the South Water of Cuba”, Technical Report No. 17, Instituto de Oceanologia, 1992.

Victoria, I., R. Garcia and L. Nechvolodov, “Seasonal Variations of the Upper Ocean Temperature near Cuba”, Trudy Goina, 197, 85-95, 1991.

**OTHER PUBLICATIONS**

Garcia, R.F., Smith, R.H., and Volkov, D. (2021): Oceanographic data collected in the Straits of Florida at 27°N during the year 2019, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-81, 76 pp., doi.org/10.25923/hkcc-4k61.

**Garcia, R.F., Smith, R.H.**, and **Volkov, D.** (2020): Oceanographic data collected in the Straits of Florida at 27°N during the year 2018, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-80, 75 pp., doi.org/10.25923/znsg-pj87

**Garcia, R.F.**, **Meinen, C.S.**, **Smith, R.H.**, and **Volkov, D.** (2019): Oceanographic data collected in the Straits of Florida at 27°N during the year 2017, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-76, 81 pp., doi:10.25923/3ak8-d940.

Garcia, R.F, Meinen, C.S, and Smith, R.H (2017). Oceanographic data collected in the Straits of Florida at 27°N during the year 2016, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-74, 74 pp., doi:10.7289/V5/DR-AOML-74

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2000, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-73, 26 pp., doi:10.7289/V5/DR-AOML-73

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2001, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-72, 59 pp., doi:10.7289/V5/DR-AOML-72

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2002, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-71, 65 pp., doi:10.7289/V5/DR-AOML-71

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2003, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-70, 56 pp., doi:10.7289/V5/DR-AOML-70

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2004, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-69, 82 pp., doi:10.7289/V5/DR-AOML-69

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2005, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-68, 66 pp., doi:10.7289/V5/DR-AOML-68

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2006, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-67, 72 pp., doi:10.7289/V5/DR-AOML-67

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2007, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-66, 60 pp., doi:10.7289/V5/DR-AOML-66

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2008, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-65, 50 pp., doi:10.7289/V5/DR-AOML-65

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2009, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-64, 68 pp., doi:10.7289/V5/DR-AOML-64

Garcia, R.F., C.S. Meinen, and R.H. Smith. (2017), Oceanographic data collected in the Straits of Florida at 27°N during the year 2010, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-63, 70 pp., doi:10.7289/V5/DR-AOML-63

Garcia, R.F, Meinen, C.S, and Smith, R.H (2016). Oceanographic data collected in the Straits of Florida at 27°N during the year 2011, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-62, 67 pp., doi:10.7289/V5/DR-AOML-62

Garcia, R.F, Meinen, C.S, and Smith, R.H (2016). Oceanographic data collected in the Straits of Florida at 27°N during the year 2012, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-61, 56 pp., doi:10.7289/V5/DR-AOML-61

Garcia, R.F, Meinen, C.S, and Smith, R.H (2016). Oceanographic data collected in the Straits of Florida at 27°N during the year 2013, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-59, 65 pp., doi:10.7289/V5/DR-AOML-59

Garcia, R.F, Meinen, C.S, and Smith, R.H (2016). Oceanographic data collected in the Straits of Florida at 27°N during the year 2014, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-58, 75 pp., doi:10.7289/V5Z60M26

Garcia, R.F, Meinen, C.S, and Smith, R.H (2016). Oceanographic data collected in the Straits of Florida at 27°N during the year 2015, including the estimated Florida Current transport. NOAA Data Report, OAR-AOML-57, 77 pp., doi:10.7289/V5J38QKF