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Education

- Ph.D. in Atmospheric & Oceanic Sciences. 1991. Program in Atmospheric and Oceanic Sciences, Princeton University, Princeton, New Jersey.
- M.A. in Geophysical Fluid Dynamics, 1988: Program in Atmospheric and Oceanic Sciences, Princeton University, Princeton, New Jersey.
- Lic. in Physical Oceanography, 1983: Universidad Nacional del Sur, Bahia Blanca, Argentina.

Professional Experience

- Professor, Associate Professor, Assistant Professor, Post-Doctoral Fellow: College of Oceanic & Atmos. Sciences, Oregon State University, Corvallis, Oregon, 1990-present.
- Guest Editor: *Continental Shelf Research*, Elsevier Publications, 2008.
- Visiting Scientist, 2005: The Cooperative Institute for Marine and Atmospheric Studies, University of Miami, Miami, Florida.
- Visiting Professor, 2000: Department of Physics, Universidad Nacional del Sur, Bahia Blanca, Argentina.
- Visiting Scientist, 1998. Institute for Marine and Atmospheric Research, University of Utrecht, Utrecht, The Netherlands.

Publications

Perez, R. C., S. L. Garzoli, C. Meinen, and R. P. Matano, 2011: Geostrophic velocity measurement techniques for the meridional overturning circulation and meridional heat transport in the South Atlantic. *J. Atmos. & Ocean. Tech.*, In press.

Miller, R. L., R. P. Matano, and E. D. Palma, 2011: Upwelling induced by alongshelf currents: Analytical and numerical results. *J. Fluid Mech.* In press.

Garzoli, S. L., and R. P. Matano, 2011: The South Atlantic and the Atlantic Meridional Overturning Circulation. *Deep-Sea Res. II*, doi:10.1016/j.dsr2.2010.10.063

Matano, R. P., E. D. Palma, and A. R. Piola, 2010: The influence of the Brazil and Malvinas currents on the southwestern Atlantic shelf. *Ocean Sciences*. 6, 983-995, doi:10.5194/os-6-983-2010.

Matano, R. P., and E. D. Palma, 2010: The upstream spreading of bottom-trapped plumes. *J. Phys. Oceanogr.* doi: 10.1175/2010JPO4351, 40, 1631-1650.

Matano, R. P., and E. D. Palma, 2010: The spin-down of bottom-trapped plumes. *J. Phys. Oceanogr.* doi: 10.1175/2010JPO4352.1, 40, 1651-1658.

Palma, E. D., and R. P. Matano, 2009: Disentangling the upwelling mechanisms of the South Brazil Bight. *Cont. Shelf Res.* 29, 1525-1534, doi:10.1016/j.csr.2009.04.002.

- Campos, E. J. D., A. R. Piola, R. P. Matano, and J. L. Miller, 2008: PLATA: A synoptic characterization of the southwest Atlantic shelf under influence of the Plata River and Patos Lagoon outflows. *Cont. Shelf Res.* 28, 1551-1555, doi: 10.1175/2008JPO3783.1.
- Matano, R. P., and E. D. Palma, 2008: On the upwelling of downwelling currents. *J. Phys. Oceanogr.* 38, 2482-2500, doi: 10.1175/2008JPO3783.1
- Matano, R. P., E. J. Beier, and P. T. Strub 2008: The seasonal variability of the circulation in the South Indian Ocean: model and observations. *J. Mar. Sys.*, 74, 315-328, doi:10.1016/j.marsys.2008.01.007
- Palma, E. D., R. P. Matano, and A. R. Piola 2008: A numerical study of the southwestern Atlantic shelf circulation. *J. Geophys. Res.* 113, C11010, doi:10.1029/2007JC004720.
- Fetter, A. F. H., and R. P. Matano, 2008: On the origins of the variability of the Malvinas Current in a global, eddy-permitting numerical simulation. *J. Geophys. Res.* 113, C11018, doi:10.1029/2008JC004875.
- Fetter, A., J. R. E. Lutjeharms, and R. P. Matano, 2007: Atmospheric driving forces for the Agulhas Current in the subtropics, *Geophys. Res. Lett.*, 34, L15605, doi:10.1029/2007GL030200.
- Schouten, M. W., and R. P. Matano, 2006: Formation and pathways of intermediate waters in the Parallel Ocean Circulation Model's Southern Ocean, *J. Geophys. Res.*, 111, C06015, doi:10.1029/2004JC002357.
- Piola, A. R., R. P. Matano, E. D. Palma, O. O. Moëller, and E. J. Campos, 2005: The influence of the Plata River discharge on the western South Atlantic shelf. *Geophys. Res. Lett.* 32, L01603, doi:10.1029/2004GL021638.
- Matano, R. P., and E. D. Palma, 2005: Energy transmission by barotropic Rossby waves revisited. *J. Phys. Oceanogr.*, 35, 11, 2228-2236.
- Schouten, M. W., R. P. Matano, and P. T. Strub, 2005: A description of the seasonal cycle of the equatorial Atlantic from altimeter data. *Deep-Sea Res.*, 52, 477-493.
- De Ruijter, W. P., van Aken, H. M, Beier, E. J., Lutjeharms, J. R. E., Matano, R. P., and Schouten, M. W., 2004: Eddies and dipoles around South Madagascar: formation, pathways and large-scale impact. *Deep Sea Res.*, I, 51, 383-400.
- Sabatini, M. E., E. R. Retta, and R. P. Matano, 2004: Circulation and biomass distribution of the southern Patagonian shelf. *Cont. Shelf Res.* 24, 1359-1373.
- Palma, E. D., R. P. Matano, and A. R. Piola, 2004: The barotropic response of the southwestern Atlantic shelf to tidal and wind forcing. *J. Geophys. Res.* 109, C08014, doi:10.1029/2004JC002315.
- Palma, E. D., R. P. Matano, and A. R. Piola, 2004: A comparison of the circulation patterns over the southwestern Atlantic shelf driven by different wind climatologies. *Geophys. Res. Lett.*, 31, L24303, doi:10.1029/2004GL021068.
- Matano, R. P., and E. J. Beier, 2003: A kinematic analysis of the Indian/Atlantic interocean exchange. *Deep-Sea Res.* II. 50 (1), 229-249.
- Mesias, J. M., R. P. Matano, and P. T. Strub, 2003: Dynamical Analysis of the Upwelling Circulation off Central Chile *J. Geophys. Res.* 108, C3, 3085, doi:10.1029/2001JC001135.

- Matano, R. P., E. J. Beier, P. T. Strub, and R. Tokmakian, 2002: Large-Scale forcing of the Agulhas variability: The seasonal cycle. *J. Phys. Oceanogr.* 32 (4), 1228-1241.
- Matano, R. P., A. Gordon, R. D. Muench, and E. Palma, 2002: A numerical study of the circulation in the northwestern Weddell Sea. *Deep-Sea Res. II.* 49 (21), 4827-4841.
- Palma, E. D., and R. P. Matano, 2001: Dynamical impacts associated with radiation boundary conditions. *J. of Sea Res.*, 46, 117-132.
- Piola, A. R., and R. P. Matano, 2001: The South Atlantic Western Boundary Currents Brazil/Falkland (Malvinas) Currents. *Encyclopedia of Ocean Sciences.* J. M. Steele, S. A. Thorpe, and K. K. Turekian Eds. Academic Press. 1, 340-349.
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- Campos, E., A. Busalachi, S. Garzoli, J. Lutjeharms, R. Matano, P. Nobre, D. Olson, A. Piola, C. Tanajura, I. Wainer, 2001: Important aspects of the South Atlantic to the understanding of the global climate. *Observing the ocean in the 21st Century.* C. J. Koblinsky and N. R. Smith (Ed.). Bureau of Meteorology, Melbourne, Australia. 453-472.
- Palma, E. D., and R. P. Matano, 2000: On the implementation of open boundary conditions to a general circulation model: The 3-D case. *J. Geophys. Res.* 105, 8605-8627.
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- Matano, R. P., C. G. Simionato, and P. T. Strub, 1999: Modeling the wind-driven variability of the South Indian Ocean. *J. Phys. Oceanogr.*, 29, 217-230.
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- Matano, R. P., C. G. Simionato, W. P. de Ruijter, P. J. van Leeuwen, P. T. Strub, D. B. Chelton, and M. G. Schlax, 1998: Seasonal variability in the Agulhas Retroflexion region. *Geophys. Res. Lett.* 25, 4361-4365.
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- Matano, R. P., 1993. On the separation of the Brazil Current from the coast. *J. Physical Oceanogr.*, 23, 79-90.
- Matano, R. P., and S. G. H. Philander, 1993. Heat and mass balances of the South Atlantic Ocean calculated from a numerical model. *J. Geophys. Res.*, 98, 977-984.

Matano, R. P., M. G. Schlax, and D. B. Chelton, 1993. Seasonal variability in the southwestern Atlantic. *J. Geophys. Res.*, 98, 18,027-18,035.

Advising

Undergraduate Interns: B. Campell (B.S. Physics, OSU), 2004; R. Candela (M. Sc. Physics, Ecole Normale Superieure, France), 2006.

Graduate Students:

Advisor: J. Mesias, PhD awarded in 2000; A. Fetter, PhD awarded in 2008, advisor; J. Sinclair, M.Sc. current.

Graduate advisory committee: A. Martinez, PhD; T. Kimura, PhD; G. Mayorga, M.Sc.; P. Gaube, PhD.; A. Moulin, PhD; P. Mazzini, Ph.D.; S. J. Harada, M.Sc, 2011 (Mathematics).

Thesis reviewer of foreign students: M. Cirano, PhD. (U. of New South Wales, Australia); J. Lima, PhD. (U. of New South Wales, Australia); D. Ghisolfi, PhD (U. of New South Wales, Australia); J. C. Hermes, PhD (U. of Cape Town, South Africa, 2005).

Post-doctors: E. J. Beier (CICESE, Mexico), 1999-2003; M. Schouten (U. of Utrecht, The Netherlands), 2002-2003; E. Giarolla (INPE, Brazil), 2008-2010; V. Combes (Georgia Tech, USA), 2010-present.

Host of Fullbright scholars

Prof. Johan Lutjeharms (U. of Cape Town, South Africa, 2010)