

CURRICULUM VITAE

Piola, Alberto R., Lic. Oceanografía, 1975, Departamento Oceanografía, Servicio de Hidrografía Naval Av. Montes de Oca 2124, C1270ABV Buenos Aires, Argentina.

- **Asesor Científico**, Departamento Oceanografía, Servicio de Hidrografía Naval.
- **Investigador Principal**, CONICET, Instituto Franco-Argentino sobre Estudios de Clima y sus Impactos, CONICET/CNRS.
- **Profesor Titular**, Departamento de Ciencias de la Atmósfera y los Océanos, FCEN-UBA.

Cursos como Profesor Invitado

Universidad Nacional del Sur (1999 y 2006); Universidad Nacional de Mar del Plata (2004); Universidad de Buenos Aires (2010); Fundação Universidade Federal do Rio Grande, Brasil (2004); *Surface Ocean Lower Atmosphere Summer School* (Cargese, Francia, 2011 y 2018; Xiamen, China, 2013), Universidad de Concepción, Chile (2013), Universidad Federal do Paraná, Brasil (2013); *International Ocean Institute* (Pontal do Sul, Brasil, 2016 y Cananeia, Brasil, 2020).

AREAS DE INTERES

Circulación oceánica de gran escala, frentes oceánicos, rol del océano en el clima global, oceanografía regional del Atlántico sudoccidental.

PUBLICACIONES RECIENTES (desde 2015, total 117)

- Ruiz Etcheverry, L.A., M. Saraceno, A.R. Piola, et al., 2015, A comparison of the annual cycle of sea level in coastal areas from gridded satellite altimetry and tide gauges, *Cont. Shelf Res.*, 92, 87-97.
- Strub, P.T., et al., 2015, Altimeter-Derived Seasonal Circulation on the SW Atlantic Shelf: 27° – 43°S, *J. Geophys. Res. Oceans*, 120, 3391–3418, doi:10.1002/2015JC010769.
- Pérez, L.F., et al., 2015, Erosional and depositional contourite features at the western Scotia Sea - Southern Atlantic Ocean transition: correlations with regional water masses circulation, *Geo-Marine Lett.*, 35, 271-288.
- Hofmann, E., et al., 2015, IMBER – Research for marine sustainability: Synthesis and the way forward, *Anthropocene*, 12, 42-53, doi: j.ancene.2015.12.002.
- Marrari, M., et al., 2016, Trends and variability in extended ocean color time series in the Southwestern Atlantic, *Remote Sensing of Environment*, 177, 1-12, doi: 10.1016/j.rse.2016.02.011.
- Ruiz Etcheverry, et al., 2016, Sea level anomaly on the Patagonian continental shelf: Trends, annual patterns and geostrophic flows, *J. Geophys. Res. Oceans*, 121, 2733–2754.
- Hernández-Molina, et al., 2016, A contourite depositional system along the Uruguayan continental margin: sedimentary, oceanographic and paleoceanographic implications, *Marine Geology*, 378, 333-349, doi: 10.1016/j.margeo.2015.10.008.
- Artana C., et al., 2016, Malvinas Current variability from Argo floats and satellite altimetry, *J. Geophys. Res. Oceans*, 121, 4854-4872, doi:10.1002/2016JC011889.
- Voigt, I., C.M. Chiessi, A.R. Piola & R. Henrich, 2016, Holocene orbital-to millennial-scale changes in Antarctic Intermediate Water strength, *Palaeogeogr., Palaeoclim., Palaeoecol.*, 463, 60-67.
- Meinen, C.S., et al., 2017, Characteristics and causes of Deep Western Boundary Current transport variability at 34.5° S during 2009–2014, *Ocean Science*, 13, 175-194, doi:10.5194/os-13-175-2017.
- Campos, M.D.C., et al., 2017, Glacial d¹³C decreases in the western South Atlantic forced by millennial changes in Southern Ocean ventilation, *Clim. of the Past*, 13, 345-358, doi: 10.5194/cp-13-345-2017.
- Carranza M.M., et al., 2017, Wind modulation of upwelling at the shelf-break front off Patagonia: observational evidence, *J. Geophys. Res. Oceans*, 122, 2401-2424, doi: 10.1002/2016JC012059.
- Piola A.R., & Matano R.P., 2017, Ocean Currents: Atlantic Western Boundary-Brazil Current/Falkland (Malvinas) Current, *Reference Module in Earth Systems and Environmental Sciences*, Elsevier, ISBN ISBN: 978-0-12-409548-9, doi: 10.1016/B978-0-12-409548-9.10541-X.
- Kahl L.C., et al., 2017, Distribution of sea-air CO₂ fluxes in the Patagonian Sea: Seasonal, biological and thermal effects, *Continental Shelf Research*, 143, 18-28, doi: 10.1016/j.csr.2017.05.011.
- Marrari, M., A.R. Piola & D. Valla, 2017, Variability and 20-year Trends in Satellite-Derived Surface Chlorophyll Concentrations in Large Marine Ecosystems around South and Western Central America, *Frontiers in Marine Science*, 4:372, doi: 10.3389/fmars.2017.00372.
- Ferrari R., et al., 2017, Satellite altimetry and current-meter velocities in the Malvinas Current at 41°S: comparisons and modes of variations *J. Geophys. Res. Oceans*, 122, 9572-9590, doi: 10.1002/2017JC013340.

- Purca, S., J.H. Muelbert & A.R. Piola, 2017, Variability of Ocean Ecosystems Around South America (VOCES), in: *The Lima Declaration on Biodiversity and Climate Change: Contributions from science to Policy for Sustainable Development*, L. Rodríguez & I. Anderson (Eds.), Secretariat of the Convention on Biological Diversity, Technical Series **89**, Montreal, 42-48, ISBN: 978-9292256531.
- Artana, C., et al., 2018, Malvinas Current volume transport at 41°S: a 24-year long time series consistent with mooring data from 3 decades and satellite altimetry, *J. Geophys. Res. Oceans*, **123**, 378–398, doi: 10.1002/2017JC013600.
- Meinen, C.S., S. Speich, A.R. Piola, et al., 2018, Meridional Overturning Circulation transport variability at 34.5°S during 2009-2017: Baroclinic and barotropic flows and the dueling influence of the boundaries, *Geophys. Res. Lett.*, **45**, 4180–4188, doi: [10.1029/2018GL077408](https://doi.org/10.1029/2018GL077408).
- Ruiz Barlett, et al., 2018, On the temporal variability of intermediate and deep waters in Western Basin of the Bransfield Strait, *Deep-Sea Res. II*, 149, 31-46, doi: 10.1016/j.dsr2.2017.12.010.
- Artana, C., et al., 2018, Fronts of the Malvinas Current System: surface and subsurface expressions revealed by satellite altimetry, Argo floats, and Mercator operational model outputs, *J. Geophys. Res. Oceans*, **123**, 378–398. <https://doi.org/10.1002/2017JC013600>.
- Piola A.R., et al., 2018. Physical Oceanography of the SW Atlantic Shelf: a review, *Plankton Ecology of the Southwestern Atlantic - From the subtropical to the subantarctic realm*, M. Hoffmeyer, ME Sabatini, F Brandini, D Calliari, N Santinelli (eds), 37-56, Springer, Cham, Switzerland, ISBN: 978-3-319-77868-6.
- Valla, D., A.R. Piola, C.S. Meinen & E.J.D. Campos, 2018, Strong mixing and recirculation in the northwestern Argentine Basin, *J. Geophys. Res. Oceans*, **123**, 4624-4648, doi: 10.1029/2018JC013907.
- Zahng, T., A.R. Piola, D. Valla & A. Yankovsky, Observations of Semidiurnal Internal Tides on the Patagonian Shelf, *Continental Shelf Research*, **167**, 46-54, doi: 10.1016/j.csr.2018.08.004.
- Paniagua, G.F., M. Saraceno, A.R. Piola, et al., 2019, Dynamics of the Malvinas Current at 41°S: First assessment of temperature and salinity temporal variability, *J. Geophys. Res. Oceans*, **123**, 5323-5340, doi: 10.1029/2017JC013666.
- Piola, A.R. & R.P. Matano, Ocean Currents: Atlantic Western Boundary - Brazil Current/Falkland (Malvinas) Current, 2019, *Encyclopedia of Ocean Sciences*, 3rd Edition, J.K. Cochran, H. Bokuniewicz, P. Yager (Eds.), pp 411-420, ISBN: 9780128130810.
- Valla, D., A.R. Piola, C.S. Meinen & E.J.D. Campos, 2019, Abyssal transport variations in the Southwest South Atlantic: first insights from a long-term observation array at 34.5 °S, *Geophys. Res. Lett.*, **46**, 6699–6705, doi: [10.1029/2019GL082740](https://doi.org/10.1029/2019GL082740).
- Todd, R.E., et al., 2019, Global Perspectives on Observing Ocean Boundary Current Systems, *Frontiers in Marine Science*, **6**(423), 1-38, doi: 10.3389/fmars.2019.00423.
- Gianelli, I., et al., 2019, Evidence of ocean warming in Uruguay's fisheries landings: The mean temperature of the catch approach, *Marine Ecology Progress Series*, **625**, 115-125, doi: 10.3354/meps13035.
- González Carman V, A.R. Piola; et al., 2019, Circumpolar frontal systems as feeding grounds of Southern Right whales, *Prog. Oceanogr.*, **176**, 102123, doi: 10.1016/j.pocean.2019.102123.
- Martinetto P., et al., 2019, Linking the scientific knowledge on marine frontal systems with ecosystem services, *Ambio*, **49**:541–556, doi: 10.1007/s13280-019-01222-w.
- Lago, L.S., et al., 2019, On the wind contribution to the variability of ocean currents over wide continental shelves: a case study on the northern Argentine continental shelf, *J. Geophys. Res. Oceans*, **124**, 7457-7472, doi: 10.1029/2019JC015105.
- Acha, E.M., Viñas, M.D.; Derisio, C.; Alemany, D. & Piola, A.R., 2020, Large-scale geographic patterns of pelagic copepods in the southwestern South Atlantic, *Journal of Marine Systems*, **204**, 130281, doi: [10.1016/j.jmarsys.2019.103281](https://doi.org/10.1016/j.jmarsys.2019.103281).
- Guihou, K., A.R. Piola, et al., 2020, Dynamical Connections between Large Marine Ecosystems of Austral South America based on numerical simulations, *Ocean Science*, en prensa.
- Brun, A.A., N. Ramírez, O. Pizarro & A.R. Piola, 2020, The role of the Magellan Strait on the southwest South Atlantic shelf, *Estuarine, Coastal and Shelf Science*, en prensa, doi: [10.1016/j.ecss.2020.106661](https://doi.org/10.1016/j.ecss.2020.106661).

LIBROS

- Acha E.M., Piola A.R., Iribarne O. & Mianzan H.W., 2015, *Ecological Processes at Marine Fronts: Oases in the Ocean*. SpringerBriefs in Environmental Science VII, Springer, 68pp+15 ill., ISBN 978-3-319-15478-7. <http://www.springer.com/life+sciences/ecology/book/978-3-319-15478-7>

FINANCIACION DE PROYECTOS DE INVESTIGACION

Ha recibido financiación para desarrollar 27 proyectos, del CONICET, la ANPCyT, la Universidad de Buenos Aires, la Universidad Nacional del Sur, la Fundación Antorchas, el MinCyT, la OEA, el Instituto Inter-Americano para la Investigación del Cambio Global y del *US Office of Naval Research* (EEUU).

FORMACION DE RECURSOS HUMANOS

Dirección de becarios

Ha dirigido y co-dirigido 26 becarios del CONICET (14), del Instituto Inter-Americano para el Estudio del Cambio Global (6), del MinCyT (2), la UBA (2), la Red de Macro-universidades de América Latina y el Caribe (1) y de la Fundación Antorchas (1).

Dirección de tesis y seminarios

Director, Co-Director 6 tesis doctorales de la U. Buenos Aires, la U. Federal do Rio Grande (Brasil) y la U. Pierre et Marie Curie (Paris VI, Francia). Actualmente dirige 4 tesis doctorales. Director de una tesis de Maestría en la U. Federal do Rio Grande (Brasil) y un Diplôme d'Études Approfondies en la U. Pierre et Marie Curie (Paris VI, Francia). Ha dirigido 12 tesis de Licenciatura en el ITBA y en la UBA.

TAREAS EDITORIALES

Co-Editor, *Journal of Marine Systems*, 2016-; Review Editor, *Frontiers of Marine Science*, 2013- ; Editor Asociado, *Earth Perspectives*, Springer, 2012-2016 ; Editor Invitado, *Continental Shelf Research*, Elsevier, 2008; Editor Invitado, *Journal of Oceanography*, Springer, 2006.

PANELES y GRUPOS DE TRABAJO CIENTIFICOS (actuales)

- Aquarius, *Scientific Investigation Team*, CONAE/NASA (2010-2020)
- Integrated Marine Biogeochemistry and Ecosystem Research, IGBP-SCOR, *Chair Data Management Working Group* (2008-)
- Consejo Asesor Científico Tecnológico, Pampa Azul, MinCyT (2013-)

SOCIEDADES CIENTIFICAS

- *American Meteorological Society*
- *American Geophysical Union*
- *American Association for the Advancement of Science*