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AREAS OF EXPERTISE

Climate variability and change from local to regional scale. Evaluation of climate models. Development of climate and hydrological scenarios for impact studies.

CURRENT POSITION

- Associate Professor. Department of Atmospheric and Ocean Sciences. Faculty of Sciences. University of Buenos Aires.
- Senior Researcher. Centro de Investigaciones del Mar y la Atmósfera (CIMA - CONICET/UBA)
- Director. Master in Environmental Sciences. Faculty of Sciences. University of Buenos Aires.

EDUCATION

- Licentiate (5-yr degree with Thesis) in Meteorology. University of Buenos Aires, Argentina. 1987.
- PhD in Atmospheric Sciences. Advisor: Dr. Vicente Barros. University of Buenos Aires, Argentina. 1995.

PEER-REVIEWED PUBLICATIONS

- *Low frequency variability and trends in centennial precipitation stations in southern South America.* R.Saurral, [I.Camilloni](#) and V.Barros. **Int. J. of Climatology** **37**, 1774-1793. 2017.
- *A spatio-temporal comparative study of the representation of precipitation over South America derived by three gridded datasets.* C.Gulizia and [I.Camilloni](#). **Int. J. of Climatology** **36**, 1549–1559. 2016.
- *Climate change in Argentina: trends, projections, impacts and adaptation.* V. Barros, J. Boninsegna, [I.Camilloni](#), M. Chidiak, G. Magrin and M.Rusticucci. **WIREs Climate Change** **6**, 151-169. 2015.
- *Comparative analysis of the ability of a set of CMIP3 and CMIP5 global climate models to represent the precipitation in South America.* C.Gulizia and [I.Camilloni](#). **Int. J. of Climatology** **35**, 583-595. 2015.
- *Links between topography, moisture fluxes pathways and precipitation over South America.* R.Saurral, [I.Camilloni](#) and T.Ambrizzi. **Climate Dynamics** **45**, 777-789. 2015.
- *Sea-ice concentration variability over the Southern Ocean and its impact on precipitation in southeastern South America.* R.Saurral, V.Barros and [I.Camilloni](#). **Int. J. of Climatology** **34**, 2362-2377. 2014.
- *Development of statistically unbiased 21st century hydrology scenarios over La Plata basin.* R.Saurral, N.Montroull and [I.Camilloni](#). **Int. J. of River Basin Management** **11**, 329-343. 2013.

- *Hydrological projections of fluvial floods in the Uruguay and Paraná basins under different climate change scenarios.* I.Camilloni, R.Saurral and N.Montroull. **Int. J. of River Basin Management** **11**, 389-399. 2013.
- *Assessment of climate change on the future water levels of the Iberá Wetlands, Argentina, during the 21st century.* N.Montroull, R.Saurral, I.Camilloni, R.Grimson and P.Vasquez. **Int. J. of River Basin Management** **11**, 401-410. 2013.
- *Identification of the principal patterns of summer moisture transport in South America and their representation by WCRP/CMIP3 global climate models.* C.Gulizia, I.Camilloni and M.Doyle. **Theoretical and Applied Climatology** **112**, 227-241. 2013.
- *Escenarios hidrológicos futuros en la región de los esteros del Iberá en el contexto del cambio climático.* N.Montroull, R.Saurral, I.Camilloni, C.Menendez, R.Ruscica, A.Sörensson. **Meteorologica** **38**, 3-19. 2013.
- *Hydrologic modelling of the Iberá Wetlands in southeastern South America.* R.Grimson, N.Montroull, R. Saurral, P.Vasquez and I.Camilloni. **Journal of Hydrology** **503**, 47-54. 2013.
- *Temporal variability of the Buenos Aires, Argentina, urban heat island.* I.Camilloni and M.Barrucand. **Theoretical and Applied Climatology** **107**, 47-58. 2012.
- *Estimación del tiempo de retardo de la onda de crecida en la cuenca superior del río Uruguay.* C.Zotelo, S.Martin e I. Camilloni. **Meteorologica** **33**, 19-30. 2008.
- *Precipitation trends in southeastern South America: Relationship with ENSO phases and with low-level circulation.* V. Barros, M. Doyle and I. Camilloni. **Theoretical and Applied Climatology** **93**, 19-33. 2008.
- *Cambio Climático.* I. Camilloni. **Ciencia Hoy** **103**, 42-49. 2008.
- *Seasonal-to-decadal predictability and prediction of South American climate.* P.Nobre, J.Marengo, I.A.F. Cavalcanti, G.Obregón, V.Barros, I.Camilloni, N.Campos and A.G.Ferreira. **Journal of Climate** **19**, 5988-6004. 2006.
- *Climate Change Vulnerability to Floods in the Metropolitan Region of Buenos Aires.* V.Barros, A.Menendez, C.Natenzon, R.Kokot, J.Codignotto, M.Re, P.Bronstein, I.Camilloni, S.Gonzalez, D.Rios, S.Ludueña. **AIACC Working Paper Series** **26**, 1-36. Disponible en http://www.aiaccproject.org/working_papers/working_papers.html. 2006.
- *An observed trend in Central South American precipitation.* B.Liebmann, C.Vera, L.Carvalho, I.Camilloni, M.Hoerling, D.Allured, M.Bidegain, J.Baez and V.Barros. **Journal of Climate** **17**, 4357-4367. 2004.
- *La temperatura del Atlántico Sur y la diferencia de caudales del Río Paraná durante los eventos El Niño 82-83 y 97-98.* I.Camilloni y V. Barros. **Rev. Brasileira de Meteorología** **19**, 35-47. 2004.
- *Extreme discharge events in the Paraná River and their climate forcing.* I.Camilloni and V.Barros. **Journal of Hydrology** **278**, 94-106. 2003.
- *Objective method for classifying air masses: an application to the analysis of the Buenos Aires' (Argentina) urban heat island intensity.* R.Bejarán and I.Camilloni. **Theoretical and Applied Climatology** **74**, 93-103. 2003.
- *Climate variability over subtropical South America and the South American monsoon: a review.* V.Barros, M.Doyle, M.González, I.Camilloni, R.Bejarán and M.Caffera. **Meteorologica** **27**, 33-57. 2002.
- *Influence of the South Atlantic Convergence Zone and South Atlantic Sea Surface Temperature on Interannual Summer Rainfall in Southeastern South America.* V.Barros, M.Gonzalez, B.Liebmann and I.Camilloni. **Theoretical and Applied Climatology** **67**, 123-133. 2000.
- *The Paraná River response to the 1982-83 and 1997-98 ENSO events.* I.Camilloni and V.Barros. **J. of Hydrometeorology** **1**, 412-430. 2000.

- *On the urban heat island effect dependence on temperature trends.* I.Camilloni and V. Barros. **Climatic Change** **37**, 665-681. 1997.
- *Influencia de la isla urbana de calor en la estimación de las tendencias seculares de la temperatura en Argentina subtropical.* I.Camilloni and V. Barros. **Geofísica Internacional** **34**, 161-170. 1995.
- *Urban-biased trends in Buenos Aires' mean temperature.* V. Barros and I.Camilloni. **Climate Research** **4**, 33-45. 1994.
- *Buenos Aires Urban Meteorological Data Analysis of a Five-Day Period.* N.Mazzeo and I.Camilloni. **Energy and Buildings** **15**, 339-343. 1991.
- *Climatología de la difusión atmosférica en la zona de Campana (prov. de Buenos Aires)* N.Mazzeo, I. Camilloni and M.Gassmann. **Geoacta** **16**, 11 a 21. 1989.

BOOKS

- *La Argentina y el Cambio climático: de la física a la política.* V. Barros e I. Camilloni. Ed.EUDEBA, 286 pp. ISBN 9789502326559. 2016.
- *El aire y el agua en nuestro planeta.* I.Camilloni y C. Vera. Ed. EUDEBA, 104 pp. ISBN 9789502314679. 2006.

BOOK CHAPTERS

- *Near-term climate projections and predictability.* Kirtman, B., S. Power, J. A. Adedoyin, G. Boer, R. Bojariu, I. Camilloni, F. J. Doblas-Reyes, A. M. Fiore, M. Kimoto, G. A. Meehl, M. Prather, A. Sarr, C. Schär, R. Sutton, G. J. van Oldenborgh, G. Vecchi and H. J. Wang. In *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T. F., D. Qin, G.-K. Plattner, M. Tignor, S. K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P. M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 953-1028. 2013.
- *Escenarios de cambio climático global.* I.Camilloni. En: *Cambio Climático, Aportes científicos interdisciplinarios para su debate en Argentina*. UBA, 33-38. 2010.
- *Clima y Cambio Climático.* I.Camilloni En: *Dinámica de una ciudad. Buenos Aires, 1810-2010*. Dirección General de Estadística y Censos. Gobierno de la Ciudad Autónoma de Buenos Aires, 63-93. 2010.
- *El cambio climático y sus posibles efectos en los grupos funcionales de la vegetación del Delta del Río Paraná.* Madanes N.; Quintana R.D; KandusP.e I.Camilloni. En: *Efecto de los cambios globales sobre la biodiversidad*. Ed. RED CYTED 406RT0285 *Efecto de los cambios globales sobre los humedales de Iberoamérica*, 23-46. 2008.
- *Storm surges, rising seas and flood risks in metropolitan Buenos Aires.* V.Barros, A.Menéndez, C.Natenzon, R.Kokot, J.Codignotto, M.Re, P.Bronstein, I.Camilloni, S.Ludueña, D.Ríos and S.González. En: *Climate change and vulnerability*. N.Leary, C.Conde, J.Kulkarny, A.Nyong and J.Pulhin (eds). Ed. Earthscan, 117-133. 2008.
- *Tendencias hidrológicas en la Argentina.* I.Camilloni. República Argentina: *Vulnerabilidad a cambios climáticos e hidrológicos*. V.Barros y D. Perczyk (eds.). Secretaría de Ambiente y Desarrollo Sustentable de la Nación – Fundación Di Tella, 147-174. 2006.
- *Escenarios climáticos futuros.* I.Camilloni. En: República Argentina: *Vulnerabilidad a cambios climáticos e hidrológicos*. V.Barros y D. Perczyk (eds.). Secretaría de Ambiente y Desarrollo Sustentable de la Nación-Fundación Di Tella, 97-108. 2006.

- *Verificación de modelos climáticos globales en el sur de Sudamérica.* I.Camilloni. En: República Argentina: Vulnerabilidad a cambios climáticos e hidrológicos. V.Barros y D. Perczyk (eds.). Secretaría de Ambiente y Desarrollo Sustentable de la Nación-Fundación Di Tella, 83-96. 2006.
- *Elaboración de escenarios climáticos, metodologías y limitaciones.* I.Camilloni. República Argentina: Vulnerabilidad a cambios climáticos e hidrológicos. V.Barros y D. Perczyk (eds.). Secretaría de Ambiente y Desarrollo Sustentable de la Nación-Fundación Di Tella, 67-82. 2006.
- *Escenarios climáticos regionales.* I.Cavalcanti, I.Camilloni y T.Ambrizzi. El cambio climático en la cuenca del Plata. V.Barros, R.Clarke y P.SilvaDias (eds). Ed. CIMA. Buenos Aires, 175-190. 2006.
- *Escenarios climáticos.* I.Camilloni, I.Cavalcanti y T.Ambrizzi. El cambio climático en la cuenca del Plata. V.Barros, R.Clarke y P. Silva Dias (eds). Ed. CIMA. Buenos Aires, 159-174. 2006.
- *Potential impacts of climate change in the Plata basin.* V.Barros; M. Doyle and I.Camilloni. En: Regional Hydrological Impacts of Climatic Change. Impact Assessment and Decision Making. T.Wagener, S.Franks, H.Gupta, E.Bogh, L.Bastidas, C.Nobre and Oliveira Galvao (eds.). Ed. International Association of Hydrological Sciences (IAHS), 11-18. 2005.
- *Escenarios climáticos para el siglo XXI.* I.Camilloni y M.Bidegain. En: El Cambio Climático en el Río de la Plata. V.Barros, A. Menéndez y G.Nagy (eds.). Ed. CIMA, Buenos Aires, 33-39. 2005.
- *Variabilidad y tendencias hidrológicas en la Cuenca del Plata.* I.Camilloni. En: El Cambio Climático en el Río de la Plata. V.Barros, A. Menéndez y G.Nagy (eds.). Ed. CIMA, Buenos Aires, 21-31. 2005.
- *Tendencias climáticas.* I.Camilloni. En: El Cambio Climático en el Río de la Plata. V.Barros, A. Menéndez y G.Nagy (eds.). Ed. CIMA, 13-19. 2005.

MULTIMEDIA RESOURCES

- *Climate.* Environmental Atlas of Buenos Aires. (www.atlasdebuenosaires.gov.ar). I.Camilloni and V. Barros. CONICET/ANPCYT/MACN/FADU-UBA/GCBA.2004-2007.
- *Climate Change.* Environmental Atlas of Buenos Aires. (www.atlasdebuenosaires.gov.ar). I.Camilloni. CONICET/ANPCYT/MACN/FADU-UBA/GCBA.2004-2007.
- *Climate.* Atlas of Environmental Sensitivity of the Coastal Areas and the Argentine Sea. (<http://atlas.ambiente.gov.ar>). I.Camilloni. CONICET/SHN/SAYDS/GEF/UNDP. 2008.

RESEARCH GRANTS (2010 to present)

- *Development of hydroclimatic future scenarios for South America.* UBACYT 2014-17. Position: PI.
- *Urban drainage and climate change: future sewage systems.* Colciencias, Dept. Science, Technology and Innovation (Colombia). 2013-2016.Position: Researcher.
- *Development of knowledge and capacities for the design of public policies oriented to the preparation of adaptation plans to water stress in the Comahue region (Argentina).* International Development Research Center (IDRC, Canada). 2013-2015. Position: Researcher
- *Global climate change in the south of South America.* PIP 2013-2015. Position: Co-PI.
- *Decadal climate variability and change and its hydrological impacts over southeastern South America.* CNRS/INSU/LEFE 2012-13. Position: Researcher
- *Climate projections: errors and uncertainty reduction.* PIP2008-444. 2009-2014. Position: PI.

- *Climate projections: errors and uncertainty reduction*. PICT2007-00400. 2009-2012. Position: PI.
- *A Europe-South America Network for Climate Change Assessment and Impact Studies in La Plata Basin (CLARIS LPB)*. 2008-2010. PI: Dr. Jean-Philippe Boulanger. European Project of the 7th Framework programme. Position: Researcher.
- *Some potential impacts of climate change in Argentina*. University of Buenos Aires. 2008-10. Position: PI.

PhD TESIS ADVISOR

- Ramiro Saurral, University of Buenos Aires. 2012.
- Carla Gulizia, University of Buenos Aires. 2014.
- Natalia Montroull, University of Buenos Aires. 2015.

PARTICIPATION IN IPCC/UNFCCC ACTIVITIES

- *Lead author* of the IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty. Chapter 3: *Impacts of 1.5°C global warming on natural and human systems*. 2017-2018.
- *Invited talk*: The physical basis of climate change: Key messages of the AR5 WGI Contribution. Kingston, Jamaica. 2016.
- *Invited talk*: Introduction to climate science. IPCC Outreach Event. Kingston, Jamaica. 2016.
- *Invited Presentation*: Regional climate projections, precipitation changes and flooding: the connection between science and practice. IPCC Workshop of WG I on Regional Climate Projections and their Use in Impacts and Risk Analysis Studies. Sao Jose dos Campos, Brasil. 2015.
- *Invited talk*: Climate Projections. IPCC Outreach Event. Buenos Aires, 2015.
- *Invited talk*: Introduction to climate science. IPCC Outreach Event. Buenos Aires, 2015.
- *Lead author* IPCC-WG1 AR5 Chapter 11: *Near-term climate projections and predictability*. 2010-2013.
- *Contributor* to the Argentine Third National Communication to the UNFCCC. *Climate models*. 2013-2014.
- *Contributor* to the Argentine Second National Communication to the UNFCCC. *Analysis of the vulnerability of Patagonia to climate change*. 2005-2006.
- *Contributing Author* of the IPCC Fourth Assessment Report (AR4). Climate Change 2007: The Physical Science Basis. Chapter 3: *Observations: Surface and Atmospheric Climate Change*.
- *Expert reviewer* of the IPCC Fourth Assessment Report (AR4). Climate Change 2007: Impacts, Adaptation and Vulnerability. Chapter 13: *Latin America*.
- *Participant* in the UNFCCC Workshop on climate related risks and extreme events under the Nairobi Work Programme on impacts, vulnerability and adaptation to climate change. El Cairo, Egypt. 2007.
- *Participant* in the IPCC Working Group II Scoping Meeting: Possible Special Report on "Extreme Events and Disasters: Managing the Risks". Oslo, Norway. 2009.

OTHER RELEVANT ACTIVITIES

- *Member* of the Advisory Committee on Climate Change. Environmental Protection Agency-Buenos Aires Government. 2009-present.

- Senior Consultant of the Intergovernmental Coordinating Committee of La Plata Basin countries (CIC). *Hydroclimatology: Integrating Monitoring, Climate Services and Warning*. 2015.
- *Participant* in the Regional Study of Economics of Climate Change South America (RECCS-SA). Economic Commission for Latin America and the Caribbean. 2009.
- *Reviewer* of scientific papers submitted to Climatic Change, Hydrological Processes, Advances in Atmospheric Sciences, Revista Brasileira de Meteorologia, Geophysical Research Letters, International Journal of Climatology, Meteorologica, Atmosfera.

AWARDS

- *Outstanding Personality in Science of the Buenos Aires City*. Buenos Aires City Legislature. Law N°5445, 2015.
- *Academic Vocation Award*. El Libro Foundation. Buenos Aires. 2008.
- *Guillermo Calderón Award* to a Young Professional. Centro Argentino de Meteorólogos. 2005.