



## INES CAMILLONI

Associate Professor at the Department of Atmospheric and Oceanic Sciences, School of Sciences, University of Buenos Aires (UBA). Argentina.

Researcher of the National Scientific and Technical Research Council (CONICET) at the Center for Atmosphere and Ocean Research (CIMA), Argentina.

Nationality: Argentina

### AREAS OF EXPERTISE

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Climate variability and change from local to regional scale. Development of climate and hydrological scenarios for impact studies. Evaluation of potential impacts of solar radiation modification as a climate intervention strategy.

### EDUCATION

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

### PARTICIPATION IN INTERNATIONAL PANELS AND COMMITTEES (most relevant)

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- Member of the Ethical Framework for Climate Intervention Advisory Board of the American Geophysical Union. 2023 – present.
- Member of the World Commission on the Ethics of Scientific Knowledge and Technology – UNESCO. 2022 – present.
- Member of the Expert Panel to undertake a rapid review of the state of scientific research on Solar Radiation Modification. UNEP. 2022.
- Consultant for the development of contents for a Climate Change awareness course. EUROCLIMA Project. 2021-2023.
- Member of the Scientific Advisory Committee of the Inter-American Institute for Global Change Research. 2020-present.
- Resident of the Harvard's Solar Geoengineering Research Program. Harvard University. 2019, 2022.
- Review Editor of the Atlas of the Working Group I Contribution to the IPCC Sixth Assessment report. 2018-2021.
- 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.
- Senior Consultant of the Intergovernmental Coordinating Committee of La Plata Basin countries (CIC). Hydroclimatology: Integrating Monitoring, Climate Services and Warning. 2015.
- Lead author IPCC-WG1 AR5 Chapter 11: Near-term climate projections and predictability. 2010-2013.
- Lead author of the Regional Study of Economics of Climate Change in South America (RECCS-SA). Economic Commission for Latin America and the Caribbean. 2009

## **PARTICIPATION IN NATIONAL COMMITTEES AND COMMITMENTS (most relevant)**

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- Member of the Advisory Committee on Climate Change. Environmental Protection Agency-Buenos Aires City Government. 2009-present.
- Coordinator of the report *Study of observed and projected changes for Argentina for different time slices and global warming targets* for the National Climate Change Adaptation Plan of Argentina. UNDP-Ministry of Environment and Sustainable Development. 2022-2023.
- Contributor to the Buenos Aires City Climate Action Plan 2050. 2019-2020.
- Climate change training content advisor. National Institute of Public Administration (INAP). 2018-2019.
- Contributor to the Buenos Aires City Climate Action Plan 2020. 2015.
- Lead author of the Argentine Third National Communication to the UNFCCC. *Chapter: Climate models*. 2013-2014.
- Director of the Master in Environmental Sciences of the University of Buenos Aires. 2010-2022.
- Member of the Scientific Committee of the Interdisciplinary Program on Climate Change of the University of Buenos Aires (PIUBACC). 2008.

## **AWARDED RESEARCH GRANTS (most relevant)**

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- *Hydrological impacts of solar radiation management in La Plata Basin in South America*. DECIMALS Fund. 2018-2024. Position: PI.
- *Evaluation of the possible impacts in Argentina of the solar radiation modification as a strategy against climate change*. PICT2020. 2022-2024. Position: PI.
- *Development of future climate scenarios and their use in the generation of hydrological scenarios in the center-east of Argentina*. PICT2016. 2018-2021. Position: PI.
- *Climate change and hydrological impacts in the center-east of Argentina*. UBACYT 2018-20. Position: PI.
- *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.

## **AWARDS**

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- *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.

## SELECTED PUBLICATIONS (2013-2023)

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- *Relationship between rainfall and streamflow in the La Plata Basin: annual cycles, interdecadal and multidecadal variability*. C.Gulizia and I. Camilloni. *Atmósfera* 36 (2), 183-205. 2023.
- *Changes in mean and extreme climate in southern South America under global warming of 1.5°C, 2°C and 3°C*. Gulizia, C., Raggio, G., Camilloni, I. and Saurral, R. *Theor. and Appl. Climatol.* 150, 787-803. 2022.
- *La Plata Basin Hydroclimate Response to Solar Radiation Modification with Stratospheric Aerosol Injection*. I. Camilloni, N. Montroull, C. Gulizia and R. Saurral. *Frontiers in Climate* 4. DOI=10.3389/fclim.2022.763983. 2022
- *Solar Radiation Modification: A Risk-Risk Analysis*. Carnegie Climate Governance Initiative (C2G), Felgenhauer, T., Bala, G., Borsuk, M., Brune, M., Camilloni, I., Wiener, J.B., Xu, J. New York, NY: [www.c2g2.net](http://www.c2g2.net). 2022.
- *Relationship between rainfall and streamflow in the La Plata Basin: annual cycles, interdecadal and multidecadal variability*. C.Gulizia and I. Camilloni. *Atmósfera* (in press). 2021.
- *Floods and Droughts*. Camilloni, I., V. Barros, S. Moreiras, G. Poveda, and J. Tomasella. In: *Adaptation to Climate Change Risks in Ibero-American Countries —RIOCCADAPT Report* [Moreno, J.M., C. Laguna-Defior, V. Barros, E. Calvo Buendía, J.A. Marengo, and U. Oswald Spring (eds.)], McGraw Hill, Madrid, Spain. pp 371-396. 2020.
- *The human imperative of stabilizing global climate change at 1.5°C*. O. Hoegh-Guldberg, D. Jacob, M. Taylor, T. Guillén Bolaños, M. Bindi, S. Brown, I. Camilloni, A. Diedhiou, R. Djalante, K. Ebi, F. Engelbrecht, J. Guiot, Y. Hijioka, S. Mehrotra, C. W. Hope, A.J. Payne, H.-O. Pörtner, S.I. Seneviratne, A. Thomas, R. Warren, G. Zhou. *Science* 365, 6459. DOI: 10.1126/science.aaw6974-. 2019
- *Hydrological impacts in La Plata basin under 1.5, 2 and 3°C global warming above the pre-industrial level*. N. Montroull, R.Saurral and I. Camilloni. *Int. J. of Climatol.* 38, 3355-3368. 2018.
- *The new urban paradigm*. G. Lanfranchi, A.C. Herrero, S. Rueda Palenzuela, I. Camilloni and S. Bauer. *Economics Discussion Papers*, No 2018-70, Kiel Institute for the World Economy. <http://www.economics-ejournal.org/economics/discussionpapers/2018-70>. 2018.
- *Impacts of 1.5°C Global Warming on Natural and Human Systems*. Hoegh-Guldberg, O., D. Jacob, M. Taylor, M. Bindi, S. Brown, I. Camilloni, A. Diedhiou, R. Djalante, K.L. Ebi, F. Engelbrecht, J.Guiot, Y. Hijioka, S. Mehrotra, A. Payne, S.I. Seneviratne, A. Thomas, R. Warren, and G. Zhou. In: *Global Warming of 1.5°C. An 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* [Masson-Delmotte, V., P. Zhai, H.-O. Pörtner, D. Roberts, J. Skea, P.R. Shukla, A. Pirani, W. Moufouma-Okia, C. Péan, R. Pidcock, S. Connors, J.B.R. Matthews, Y. Chen, X. Zhou, M.I.Gomis, E. Lonnoy, T.Maycock, M.Tignor, and T. Waterfield (eds.)]. <https://www.ipcc.ch/sr15/chapter/chapter-3/>. 2018.
- *Low frequency variability and trends in centennial precipitation stations in southern South America*. R.Saurral, I. Camilloni and V.Barros. *Int. J. of Climatol.* 37, 1774-1793. 2017.
- *La planificación del manejo de los recursos hídricos en el contexto del cambio climático. Una aplicación a la región del Comahue, Patagonia, Argentina*. G. Nadal, O.Girardin, F. Losano, M. Marizza, P.Cello, L. Bucciarelli, L. Forni, I. Camilloni, G. Bravo, F. Lallana y N. Di Sbroiavacca. *Aqua-LAC* 9, 59-72. 2017.
- *La Argentina y el Cambio climático: de la física a la política*. V. Barros e I. Camilloni. Ed.EUDEBA, 286 pp. ISBN 9789502326559. 2016.

- *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 Climatol.* 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 Climatol.* 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 Climatol.* 34, 2362-2377. 2014.
- *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.
- *Development of statistically unbiased 21<sup>st</sup> 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. *Theor. and Appl. Climatol.* 112, 227-241. 2013.
- *Hydrologic modelling of the Iberá Wetlands in southeastern South America.* R.Grimson, N.Montroull, R. Saurral, P.Vasquez and I.Camilloni. *J. of Hydrology* 503, 47-54. 2013.