CURRICULUM VITAE: ANNA AMELIA SÖRENSSON



Instituto Franco-Argentino de Estudios sobre el Clima y sus Impactos (IFAECI)—IRL 3351
—CNRS-CONICET-IRD-UBA, Buenos Aires, Argentina
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Date of birth: 1977-08-28
Nationality: Argentina, Sweden

Degrees

Mar 2010	**PhD in Atmospheric Sciences,** University of Buenos Aires, Argentina. Thesis title: Analysis of interactions between soil and atmosphere in South America employing a new regional climate model.
May 2004	**Master of Physics,** University of Linköping, Sweden. Thesis title: Mitigation options for Greenhouse gases from the energy sector and its impact on Local Pollutants in the Buenos Aires Metropolitan Area.

Positions

2015 – present	**Permanent researcher** of the National Scientific and Technical Research Council, Argentina.
2012 – 2015	**Coordinator of the Physical Climate Component of the Third National Communication of Argentina to the UNFCCC**. (Argentina Ministry of Environment).
2010 – 2012	**Postdoctoral researcher** of the Inter-American Institute for Global Change Research (project CRN2094).

Participation in international panels and committees

2025 –present	Officer of the **Joint Scientific Committee**, World Climate Research Programme (WCRP)
2025-present	Observer of the **IPCC Plenary Sessions** for WCRP
2025 –present	Coordinator of the WCRP **Global South inclusion Task Team**
2025	Member of the Scientific Steering Committee of the **WCRP-IPCC cosponsored workshop on high impact events, tipping points and their consequences** (WCRP)

2025	Member of the **Task Team on Social Science and Geophysical Science Integration** (WMO Research Board)
2024 –present	Member of the Scientific Steering Committee of the **International Committee on New Integrated Climate Change Assessment Scenarios** (ICONICS)
2023 – 2025	Member of the Scientific Steering Committee of the **Scenario Model Intercomparison Project** (WCRP)
2022 – 2025	Member of the Scientific Steering Committee of **My Climate Risk** (WCRP)
2022 – 2025	Focal point of the Buenos Aires Regional Hub of **My Climate Risk** (WCRP)
2022 – 2023	Member of the Scientific Steering Committee of the **IPCC Workshop on the Use of Scenarios in AR6 and Subsequent Assessments, 2023, Bangkok,** International Panel of Climate Change (IPCC)
2022 – 2023	Author of the **Summary for Urban Policymakers** IPCC, AR6, WGI (IPCC)
2021 – 2023	Member of the **WCRP GEWEX Hydroclimatology Panel** (WCRP)
2020 – 2023	Member of the **IPCC AR6 Synthesis Report Core Writing Team** (IPCC)
2019 – 2021	**Coordinating Lead Author** of IPCC AR6 WGI Chapter 10 (IPCC)
2018 – 2019	**Lead Author** of IPCC AR6 WGI Chapter 10, (IPCC)

Invited speaker at conferences and seminar series

- Department of Meteorology, Uni. Reading, departmental seminar, 24 Nov, 2025
- ClimateEurope2 webstival: Role of Climate Services for Mitigation, online 11 March, 2025
- Climate ethics: Negotiating values in climate science for adaptation, Oct 16-18, 2024, Paris, France
- JST/JICA STAKEHOLDER Session, GEWEX OSC, July 11, 2024, Sapporo, Japan
- Crisis and Knowledge Generation, 1st Postgraduate Congress U. Chile, Nov 29, 2023, Santiago, Chile
- Fundación Foro del Sur, Nov 14, 2023, Buenos Aires, Argentina
- Climate change IPCC: Resilience, Transformation and Equity, April 28, 2023, Bangkok, Thailand
- The Future of Climate, April 20, 2023, Contemporary Cultural Centre of Barcelona, Spain
- Barcelona Supercomputing Centre Seminar Series, April 20, 2023, Spain
- Environmental and Climatological Obs. Seminar Series, 13 of April 2023, U. Punta, Argentina
- Institut de Recherche pour le Développement seminars, Dec 2, 2022, Lima, Peru
- 19º Simposio Científico de la Comisión Técnica Mixta del Frente Marítimo, Nov 16, 2022, Uruguay
- Taller sobre coproducción de conocimientos climático-ambientales: Miradas cruzadas América Latina y Europa (IRD-France), Nov 3, 2022, Buenos Aires, Argentina
- VI Convection-Permitting Climate Modeling workshop, Sep 6, 2022, Buenos Aires, Argentina
- Institut Pierre-Simon Laplace seminars, June 20, 2022, Paris, France
- Oslo joint seminar in atmospheric, ocean and climate science, virtual, Dec 16, 2021
- Environmental Research 2021, virtual, Nov 15-19, 2021
- 2da Conferencia Chilena Evidencia y Políticas Públicas: Cambio Climático en América Latina, virtual, Sep 7-9, 2021
- WRCP First Climate Research Forum in the South America Region, virtual, Sep 8-9, 2021
- AmeriGEO Week: Earth Observations for the Americas, virtual, Aug 23-27, 2021
- Sustainability Research & Innovation Congress 2021, virtual, June 12-15, 2021
- National Adaptation Plan Project – Dissertation of international experts with Ecuadorian academics, researchers, and technicians on the issue of climate change, Feb 2020, Quito, Ecuador
- Kick-off meeting of the French - South American program CLIMAT AmSud, Cambio Climático en América del Sur: Impactos, vulnerabilidades y soluciones, June 2019, Medellín, Colombia.
- IPCC Workshop on Regional Climate Projections and their Use in Impacts and Risk Analysis Studies, September 2015, Sao José dos Campos, Brazil.
- Taller REGATTA: Adaptation measures and projects, October 2013, Lima, Peru.

Direction of projects

- PICT-2018-02511:"Interaction soil - rivers – flooding – atmosphere in the La Plata Basin: high resolution modelling and reduction of observational uncertainty", 2020-2023, Financed by the Argentinean Agency of Promotion of Science
- ECOS-A18D04: "Implementation and tests of the RegIPSL platform in Southamerica, déficits and opportunities", 2019-2023, financed by ECOS-Sud (France) and the Ministry of Science (Argentina)
- PICT-2017-1406: New indicators of hydrological conditions of agricultural soils: using satellite observations and land surface models, 2019-2021, financed by the Argentinean Agency of Promotion of Science

Awards and Honours

Institut Pierre-Simon Laplace, Programme d'invitation Experts scientifiques-2022
Invited Scientific Expert at the Institut Pierre-Simon Laplace (June 2022)

Editor's Choice Awards 2019, Water Resources Research (AGU) for the publication:
Sörensson A.A and R. Ruscica, 2018: Intercomparison and Uncertainty Assessment of 9 Evapotranspiration Estimates Over South America. Water Resources Research, doi:10.1002/2017WR021682

Directions of PhD Thesis

Apr 2022 – present	**Dalia Anahi Rosales, University of Buenos Aires**: The future of the la Plata Basin: bio-physically consistent scenarios to guide hydroclimatological risk and climate action.
Oct 2021 – Dec 2024	**Rodrigo San Martin, Université Paris-Saclay, France:** Altered fire regimes and forest resilience: application to the Chaco-Parana basin in subtropical South America.
Apr 2019 – Dec 2024	**Lucía Cappelletti, University of Buenos Aires, Argentina:** Risk of flooding over the Pampas Plains: integrating a new generation of simulation and remote sensing tools.
Apr 2017 – Apr 2022	**Anthony Schrapffer, École Polytechnique, France / University of Buenos Aires, Argentina:** High-resolution numerical analysis of land-river-floodplains-atmosphere interaction in La Plata Basin.
Apr 2010 – Mar 2015	**Romina Ruscica University of Buenos Aires, Argentina:** Processes of coupling and interaction between Land Surface and Atmosphere in the Southeastern South America.

Books and Chapters of Books

Stammer D., Cleugh H., Dahl-Jensen D., Jain S., Sörensson A.A., Stocker T., 2026: **Role of observations in advancing understanding of the climate system**, Reference Module in Earth Systems and Environmental Sciences, Elsevier, 2026, ISBN 9780124095489, https://doi.org/10.1016/B978-0-443-15748-6.00108-8.

IPCC, 2023: **Summary for Policymakers. In: Climate Change 2023: Synthesis Report**. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, H. Lee and J. Romero (eds.)]. IPCC, Geneva, Switzerland, pp. 1-34, doi:

10.59327/IPCC/AR6-9789291691647.001

IPCC, 2023: Sections. In: **Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change** [Core Writing Team, H. Lee and J. Romero (eds.)]. IPCC, Geneva, Switzerland, pp. 35-115, doi: 10.59327/IPCC/AR6-9789291691647

Arias, P.A., et al., 2021: **Technical Summary. In Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change**. [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY,USA, pp. 33−144. doi:10.1017/9781009157896.002.

IPCC, 2021: Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 3–32, doi:10.1017/9781009157896.001.

Doblas-Reyes, F.J., A.A. Sörensson, M. Almazroui, A. Dosio, W.J. Gutowski, R. Haarsma, R. Hamdi, B. Hewitson, W.-T. Kwon, B.L. Lamptey, D. Maraun, T.S. Stephenson, I. Takayabu, L. Terray, A. Turner, and Z. Zuo, 2021: **Linking Global to Regional Climate Change. In Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change** [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1363–1512, doi:10.1017/9781009157896.012.

Publications in peer-reviewed journals

Total articles published: 58
H Index: 36 (Google Scholar)
Total number of citations: 43471 (Google Scholar).
Articles with more than 10 citations: 49 (Google Scholar)

Rosales, D. A., Sörensson, A. A., Ruscica, R. C., Mindlin, J., Shepherd, T. G., Cos, P., Cappelletti, L. M., 2026: **Storylines of climatic impact-drivers relevant for forests: La Plata Basin, a hotspot for land-based mitigation**. Environmental Research: Climate, 5, 035037, doi: 10.1088/2752-5295/ae861d.

San Martín, R., Ottlé, C., Sörensson, A., Vaittinada Ayar, P., Mouillot, F., Malfante, M., 2026: **What controls fire size in the South American Gran Chaco? Exploring atmospheric and landscape drivers through Remote Sensing**. Natural Hazards and Earth System Sciences, 26, 1479–1513, doi: 10.5194/nhess-26-1479-2026.

Prudente, C., Canneva, J., Cappelletti, L. M., Hurtado de Mendoza, M. S., Testani, N., Panza, D., Rosales, D. A., Hernández, V., Pessacg, N., Rivera, J., Robledo, F. A., Díaz, L. B., Fossa Riglos, M. F., Gulizia, C.,

Mindlin, J., Ruscica, R., Sörensson, A. A., 2026: **Towards a bottom-up approach to climate risk—learnings from an interdisciplinary dialogue.** Environmental Research: Climate, 5, 033001, doi: 10.1088/2752-5295/ae8f68.

Van Vuuren, D. P., O'Neill, B. C., Tebaldi, C., Sanderson, B. M., Chini, L. P., Friedlingstein, P., Hasegawa, T., Riahi, K., Sörensson, A. A., et al., 2026: **The Scenario Model Intercomparison Project for CMIP7 (ScenarioMIP-CMIP7)**. Geoscientific Model Development, 19, 2627–2656, doi: 10.5194/gmd-19-2627-2026.

Cos, P., Díaz, L. B., Donat, M., Marcos-Matamoros, R., Sörensson, A. A., Doblas-Reyes, F. J., 2026: **Prospects of Constraining Internal Variability for Multi-Annual to Multi-Decadal Predictions in a Perfect-Model Framework**. Geophysical Research Letters, 53, e2025GL119750, doi: 10.1029/2025GL119750.

Maraun, D., Bojovic, D., Parker, W., Shepherd, T. G., Sobolowski, S., Caminade, C., Dosio, A., Gutowski W.J., Sörensson A.A., et al., 2026: **The importance of accounting for stakeholder values, power relationships and language in constructing relevant and trustworthy climate information**. Earth's Future, 14, e2024EF005618. https://doi.org/10.1029/2024EF005618

Cappelletti L.M., Sörensson A.A., Jobbágy E., 2025: **Floods from above and below: insights beyond increases in daily precipitation extremes over flat agricultural plains,** Hydrological Sciences Journal, doi: 10.1080/02626667.2025.2504433

Arias, P.A., Correa, I.C., Fita, L., Martínez A. J., Alvarez-Garreton C., Alves L. M. Boisier J. P. Lenin Campozano L., Espinoza J.-C., Junquas, Llopart, M., Sörensson A. A., 2025: **How well CMIP6 models simulate key boundary conditions affecting South American climate? Insights for regional modeling efforts**. Clim Dyn 63, 231. https://doi.org/10.1007/s00382-025-07704-w

Rosales D. A., Ruscica R. C., Sörensson A. A., 2024: **Contribution of evapotranspiration components to soil-atmosphere interaction in South America**. Meteorológica. https://doi.org/10.24215/1850468Xe033

Martinez J. A., C. Junquas, D. Bozkurt, M. Viale, L. Fita, K. Trachte, L. Campozano, P. A. Arias, J. P. Boisier, T. Condom, K. Goubanova, J. D. Pabón-Caicedo, G. Poveda, S. A. Solman, A. A. Sörensson, J. C. Espinoza, 2024: **Recent progress in atmospheric modeling over the Andes – part I: review of atmospheric processes,** Front. Earth Sci., doi: 0.3389/feart.2024.1427783

Junquas C., J. A. Martinez, D. Bozkurt, M. Viale, L. Fita, K. Trachte, L. Campozano, P. A. Arias, J. P. Boisier, T. Condom, K. Goubanova, J. D. Pabón-Caicedo, G. Poveda, S. A. Solman, A. A. Sörensson, J. C. Espinoza, 2024: **Recent progress in atmospheric modeling over the Andes – part II: projected changes and modeling challenges,** Front. Earth Sci., doi: 10.3389/feart.2024.1427837

Fossa Riglos M. F., Díaz L. B., Hernández V., Sörensson A. A., Osman M., Rivera J., Robledo F., Prudente C., 2024: **Climate storylines as a tool for interdisciplinary dialogue on risk decision-making: Analyzing a severe drought in southeastern South America**, Environmental Science & Policy, doi: 10.1016/j.envsci.2024.103848.

Shaw T.A., Arias P.A., Collins M., Coumou D., Diedhiou A., Garfinkel C.I., Jain S., Roxy M.K., Kretschmer M., Leung L.R., Narsey S., Martius O., Seager R., Shepherd T.G., Sörensson A.A., Stephenson T., Taylor M. and Wang L., 2024: **Regional climate change: consensus, discrepancies, and ways forward.** Front. Clim. doi: 10.3389/fclim.2024.1391634

Cavazos T., Bettoli M.-L., Campbell D., Sánchez Rodríguez R.A., Mycoo M., Arias P.A, Rivera J., Reboita M.S., Gulizia C., Hidalgo H.G., Alfaro E.J., Stephenson T.S., Sörensson A.A., Cerezo-Mota R., Castellanos E., Ley D., Mahon R., 2024: **Challenges for climate change adaptation in Latin America and the Caribbean region**, Front. Clim. doi: 10.3389/fclim.2024.1392033

Arias P.A., Rivera J.A., Sörensson A.A., et al., 2024: **Interplay between climate change and climate variability: the 2022 drought in Central South America**, Climatic Change. https://doi.org/10.1007/s10584-023-03664-4

Gutierrez, R., Junquas C., Armijos E., Sörensson A.A., Espinoza J.-C., 2024: **Performance of Regional Climate**

Model precipitation simulations over the terrain-complex Andes-Amazon transition region, JGR Atm., https://doi.org/10.1029/2023JD038618

Schrapffer A., Polcher, J., Sörensson A.A., Fita L., 2023: **Introducing a new floodplain scheme in ORCHIDEE (version 7885): validation and evaluation over the Pantanal wetlands**, Geosci. Model Dev., https://doi.org/10.5194/gmd-16-5755-2023

San Martin R., Ottlé C., Sörensson, A.A., 2023: **Fires in the South American Chaco, from dry forests to wetlands: response to climate depends on land cover**, Fire Ecology, https://doi.org/10.1186/s42408-023-00212-4

Rivera, J.A., Arias, P.A., Sörensson, A.A. et al., 2023: **2022 early-summer heatwave in Southern South America: 60 times more likely due to climate change**. Climatic Change, 176, 102, https://doi.org/10.1007/s10584-023-03576-3

Wongchuig S., Espinoza J.C., Condom T., Junquas C., Sierra J.P, Fita L., Sörensson A.A., Polcher J., 2023: **Changes in the surface and atmospheric water budget due to projected Amazon deforestation: Lessons from a fully coupled model simulation**, Journal of Hydrology, Volume 625, 2023,https://doi.org/10.1016/j.jhydrol.2023.130082

Schrapffer A., Cappelletti L.M., Sörensson A.A., 2023: **Estimation of the flooded area over the Pantanal, a South American floodplain, using MODIS data**, Meteorológica, 10.24215/1850468Xe017.

Cappelletti L.M., Sörensson A.A., Salvia M., Ruscica R.C., Spennemann P., Fernandez-Long M.E., Jobbágy E., 2022**: Soil moisture estimates over sporadically flooded farmlands: synergies and biases of remote sensing and in situ sources**, International Journal of Remote Sensing, 43:19-24, 6979-7001, DOI: 10.1080/01431161.2022.2152755

Ruane, A. C., Vautard, R., Ranasinghe, R., Sillmann, J., Coppola, E., Arnell, N., Cruz F.A., Dessai S., Iles C.E., Saiful Islam A.K.M., Jones R.G., Rahimi M, Ruiz Carrascal D., Seneviratne S.I., Servonnat J., Sörensson A.A., Sylla M.B., Tebaldi C., Wang W., Zaaboul R., 2022: **The Climatic Impact-Driver Framework for assessment of risk-relevant climate information**, Earth's Future, 10, e2022EF002803. DOI: 10.1029/2022EF002803

Papastefanou P., Zang C.S., Angelov Z., Anderson de Castro A., Jimenez J.C., Rezende L.F., Ruscica R., Sakschewski B., Sörensson A.A., Thonicke K., Vera C., Viovy N., Von Randow C., Ramming A**.**, 2022**, Recent extreme drought events in the Amazon rainforest: Assessment of different precipitation and evapotranspiration datasets, and drought indicators,** Biogeosciences, 19, 3843–3861, DOI: 10.5194/bg-19-3843-2022

Rezende, L. F. C., de Castro, A. A., Von Randow, C., Ruscica, R., Sakschewski, B., Papastefanou, P., Viovy N., Thonicke K., Sörensson A.A., Ramming A., Cavalcanti I.F.A., 2022: **Impacts of land use change and atmospheric CO2 on gross primary productivity (GPP), evaporation, and climate in southern Amazon.** Journal of Geophysical Research: Atmospheres, 127,e2021JD034608. DOI: 10.1029/2021JD034608.

N. Raoult, R. C. Ruscica, M. Salvia and A. A. Sörensson, 2022: **Soil Moisture Drydown Detection is Hindered by Model-based Rescaling**, IEEE Geoscience and Remote Sensing Letters, 19, 1-5, DOI: 10.1109/LGRS.2022.3178685.

Tovar, C., Carril, A. F., Gutiérrez, A. G., Ahrends, A., Fita, L., Zaninelli, P., Flombaum, P., Abarzúa, A. M., Alarcón, D., Aschero, V., Báez, S., Barros, A., Carilla, J., Ferrero, M. E., Flantua, S. G., Gonzáles, P., Menéndez, C. G., Pérez-Escobar, O. A., Pauchard, A., Ruscica R. C, Särkinen T., Sörensson A. A., Srur A., Villalba R., Hollingsworth, P. M., 2022: **Understanding climate change impacts on biome and plant distributions in the Andes: Challenges and opportunities.** Journal of Biogeography, 00, 1– 23. DOI: 10.1111/jbi.14389

Cappelletti L.M., Schrapffer A., A.A., Sörensson, 2021: **Identification and monitoring of waterlogged areas in a productive region of Argentina using Landsat,** Meteorológica, 47:2, DOI:

10.24215/1850468Xe014

Ruscica R.C., Sörensson A.A., Díaz L.B. Vera C., Castro A. Papastefanou P., Rammig A., Rezende L. F. C., Sakschewski B,Thonicke K., Viovy N., von Randow C., 2021: **Evapotranspiration trends and variability in southeastern South America: The roles of land-cover change and precipitation variability**. Int. Journ. Clim. https://doi.org/10.1002/joc.7350

Almazroui, M., M. Ashfaq, M.N. Islam, I.U. Rashid, S. Kamil, M.A. Abid, E. O'Brien, M. Ismail, M.S. Reboita, A.A. Sörensson, et al. 2021: **Assessment of CMIP6 Performance and Projected Temperature and Precipitation Changes Over South America**. Earth Syst Environ 5, 155–183 (2021). https://doi.org/10.1007/s41748-021-00233-6

Sakschewski B., W. von Bloh, M. Drüke, A. A. Sörensson, R. Ruscica, F. Langerwisch, M. Billing,S. Bereswill, M. Hirota, R. S Oliveira, J. Heinke, K. Thonicke, 2021: **Variable tree rooting strategies improve tropical productivity and evapotranspiration in a dynamic global vegetation model**. Biogeoscienceshttps://doi.org/10.5194/bg-2020-97

Schrapffer A., Sörensson A.A., Polcher, J., Fita L., 2020: **Benefits of representing floodplains in a Land Surface Model: Pantanal simulated with ORCHIDEE CMIP6 version**. Clim Dyn.https://doi.org/10.1007/s00382-020-05324-0

Ruscica, R.C, Polcher J., Salvia M.M., Sörensson A.A., Piles M., Jobbágy E.G. and Karszenbaum H., 2020: **Spatio-temporal soil drying in southeastern South America: the importance of the effective sampling frequency and observational errors on drydown time scale estimates**. International Journal of Remote Sensin. Doi: 10.1080/01431161.2020.1767825

Coronato T., A. F. Carril, P. G. Zaninelli, J. Giles, R. Ruscica, M. Falco, A. A. Sörensson, L. Fita, L.Z. X. Li, C. G. Menéndez, 2020: **The impact of soil moisture–atmosphere coupling on daily maximum surface temperatures in Southeastern South America**. Climate Dynamics. 55 (2543–2556). Doi: 10.1007/s00382-020-05399-9

Espinoza, J.C., A. A. Sörensson, J. Ronchail, J. Molina-Carpio, H. Segura, O. Gutierrez-Cori, R.Ruscica, T. Condom, S. Wongchuig-Correa, 2019: **Regional hydro-climatic changes in the Southern Amazon Basin (Upper Madeira Basin) during the 1982-2017 period**, J. of Hydrology: Regional Studies, 10.1016/j.ejrh.2019.100637

Menéndez, C.G., Giles, J., Ruscica, R., Zaninelli, P., Coronato, T., Falco, M., Sörensson A., Fita L., Carril, A., Li., L., 2019: **Temperature variability and soil–atmosphere interaction in South America simulated by two regional climate models**. *Clim Dyn*., doi: 10.1007/s00382-019-04668-6

Sörensson A.A and R. Ruscica, 2018: **Intercomparison and Uncertainty Assessment of 9 Evapotranspiration Estimates Over South America**. *Water Resources Research*, doi:10.1002/2017WR021682.

Spennemann, P.C., M. Salvia, R.C. Ruscica, A.A. Sörensson, F. Grings, H. Karszenbaum, 2017*:* **Land-atmosphere interaction patterns in southeastern South America using satellite products and climate models**, *Int. J. Applied Earth Obs and Geoinf*, doi: 10.1016/j.jag.2017.08.016

Ruscica R.C., C.G. Menéndez, A.A. Sörensson, 2016: **Land surface–atmosphere interaction in future South American climate using a multi-model ensemble.***Atmospheric Science Letters*, doi: 10.1002/asl.635.

Carril, A.F., I.F.A. Cavalcanti, C.G. Menéndez, A.A. Sörensson, N. López-Franca, J.A. Rivera, F. Robledo, P.G. Zaninelli, T. Ambrizzi, O.C. Penalba, R.P. da Rocha, E. Sánchez, M.L. Bettolli, N. Pessacg, M. Renom, R. Ruscica, S. Solman, B. Tencer, A. Grimm, M. Rusticucci, A. Cherchi, R. Tedeschi, L. Zamboni, 2016: **Extreme events in La Plata basin: A retrospective analysis of what we have learned during CLARIS-LPB Project**. *Climate Research*, 68(2-3): 95-116. doi: 10.3354/cr01374.

Sörensson A.A., H. Berbery, 2015: **A Note on Soil Moisture Memory and Interactions with Surface Climate for Different Vegetation Types in the La Plata Basin**. *Journal of Hydrometeorology*, 16: 716-729. doi: http://dx.doi.org/10.1175/JHM-D-14-0102.1.

Ruscica, R. C., A.A. Sörensson, C.G. Menéndez, 2015: **Pathways between soil moisture and precipitation in southeastern South America**. *Atmospheric Science Letters*, 16: 267-272. doi: http://dx.doi.org/10.1002/asl2.552.

Albuquerque Cavalcanti I.F., A. Carril, O.C. Penalba, A.M. Grimm, C. Menéndez, E. Sanchez, A. Cherchi, A.A. Sörensson, F. Robledo, J. Rivera, V. Pántano, M.L. Bettolli, P. Zaninelli, L. Zamboni, R.G. Tedeschi, M. Dominguez, R. Ruscica, R. Flach, 2015: **Precipitation extremes over La Plata Basin -Review and new results from observations and climate simulations.** *Journal of Hydrology*, 523: 2011-2030. doi: http://dx.doi.org/10.1016/j.jhydrol.2015.01.028.

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