

Walter E. Baethgen

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Profile: Program Manager and Senior Scientist, International and National Programs

- Over 30 years of demonstrated results in designing, implementing and managing International and National multidisciplinary research and development program. Expertise in the interface of science, decisions and policy.
- Scientific expertise in agricultural systems, natural resources management, risk assessment and risk management (especially associated to climate variability and climate change), and information and decision support systems.

EMPLOYMENT HISTORY

Senior Research Scientist, Acting Director, Director of the Regional and Sectoral Research Program, Leader Latin America/ Caribbean, International Research Institute for Climate and Society (IRI), The Climate School and at The Earth Institute at Columbia University. Establish, develop and manage IRI's program in climate related risk management in agriculture/food security, health, water resources and disasters. Lecture in graduate courses (Masters and PhD) on Climate Risk Management, Decision Support Systems in Agriculture. *Columbia University, New York, NY. August 2004 – present*

Vice-president, Board of Directors, National Agricultural Research Institute (INIA), Establish priorities for national and regional research, and for international cooperation. Approve annual budgets, research plans and programs. *INIA, Montevideo, Uruguay. May 2020-present*

Faculty Advisory Committee member, Columbia Global Centers of Latin America (Chile and Brazil). Provide strategic advice to the Global Centers in Chile and Brazil. *Columbia University, New York, NY. 2013 – present.*

Senior Research Scientist, Acting Director, Agriculture and Food Security Center, The Earth Institute at Columbia University. Establish research and training activities to advance sustainable agricultural intensification on the ground, with a particular emphasis on developing countries. *Columbia University, New York, NY. September 2016 – December 2017*

Distinguished Lead Scholar, Fulbright Regional Network for Applied Research Program (NEXUS). Program created to establish a network of experts to advance policy-oriented research and provide a forum for best practices. Experts engaged in collaborative thinking, analysis, problem-solving, multidisciplinary research. *Washington, D.C., August 2010 – July 2011.*

Member of CGIAR's Science Council. The main functions included: (i) Enhance and promote the quality, relevance and impact of CGIAR science programs, (ii) help to mobilize the global scientific community around the mission and goals of the CGIAR. *Rome, Italy, June 2006 – July 2008.*

Senior Scientist, Resource Development Division, International Soil Fertility and Agricultural Development Center (IFDC). Design, establish and manage international research and development projects in: Decision Support Systems; Climate Variability and Change; Risk Assessment/Risk Management; Carbon Sequestration in Agriculture and Forestry. *Montevideo, Uruguay and M. Shoals, Alabama, USA. Oct 1987- Mar 2004*

Visiting Scientist, National Environmental Center for Environmental Prediction (NCEP, NOAA) and International Research Center for Climate Prediction (IRI). Application of Tropical Pacific Sea Surface Temperature information in agricultural production of SE USA and the Lower Plains USA. *Camp Springs, Maryland, USA. February 1997-April 1998.*

Scientist, US Environmental Protection Agency/ US Agency for International Development. "Climate Change and World Food Supply". *Montevideo, Uruguay, and Washington, D.C., USA. January 1990 - November 1992.*

Regional Coordinator for Latin America, IFDC /United Nations Development Program. UNDP/ The World Bank. "Fertilizer Strategies for Sustainable Agriculture and Environmental Protection". *IFDC, Montevideo, January 1991 - December 1993.*

Research Assistant, "Soil and Crop Management" and "Soil Fertility and Soil Chemistry", Department of Crop and Soil Environmental Sciences. Virginia Polytechnic Institute and State University, Blacksburg, VA, March 1983- January 1986

Researcher, Soil and Crop Management, A. Boerger National Agricultural Research Center, Ministry of Agriculture and Fisheries, La Estanzuela, Colonia, Uruguay, March 1979 - December 1982.

Other Activities Related to Climate Variability / Climate Change

- **Lead Author, IPCC**, Intergovernmental Panel on Climate Change, Working Group II. Impacts, Adaptations and Mitigation. 2nd & 3rd Assessment Reports (1995, and 2001). **Contributing Author** 4th Assessment Report (2007- *Peace Nobel Prize*).
- **Review Editor, IPCC**, Intergovernmental Panel on Climate Change. "Methodological and Technological Issues in Technology Transfer" – Agricultural Sector. (Special Report of Working Group III, IPCC). 2000.
- **Member of the Scientific Advisory Committee, IAI** (Inter-American Institute for Global Change Research). 2010-2014.
- **Member of the Science-Policy Advisory Committee, IAI** (Inter-American Institute for Global Change Research). Present
- **Member of the Scientific Advisory Committee, VAMOS**, Present.
- **Member of the Science Study Group, PLATIN**, WCRP/CLIVAR/VAMOS, Variability and predictability of climate and hydrology, societal impacts of climate change. Present.
- **International Advisory Committee**, International Research Institute for Climate Prediction. Palisades, New York, July 2002
- **Lead National Greenhouse Gas Inventories**, (IPCC methodology). Agriculture and Land Use Change Sectors of Uruguay. Montevideo, 1996, 1998, 2000, 2001, 2002. GEF / UNDP / National Department for the Environment (Uruguay).
- **WMO Expert Team member**, Open Program Area Groups - OPAG, "Climate Applications, Information and Prediction Services", ET: "Climate Watches"; and "Impact of climate change/variability on medium to long range prediction for agriculture".
- **Advisory Committee Member**, CLIMAG (Research Program for Climate Forecasts Applications in Agriculture) WMO
- **Advisory Committee Member**, International Research Institute for Climate Prediction (IRI), Applications Division.
- **Steering Committee Member**, Inter-American Institute for Global Change Research (IAI). Theme: *"Comparative Studies of Temperate Terrestrial Ecosystems: Developing a Regional Science Plan"*. July 1994.
- **Coordinating Committee Member**, *"Trace-Gas Exchange: Mid-Latitude Terrestrial Ecosystems and the Atmosphere"* Activity of the International Global Atmospheric Chemistry Project (TRAGEX/IGAC, IGBP). December 1992 - 2003.

Consultancies in the Public Sector

- **Inter-American Development Bank**. Contribute to create the document of the Blue Ribbon Panel Report with recommendations for IDB Invest becoming a climate-smart institution over the next decade. 2022-2023.
- **Inter-American Development Bank / Ministry of Agriculture and Fisheries of Uruguay**. Explore the feasibility for establishing an Agricultural Insurance Program. Montevideo, March-June 2000.
- **US AID/Government of Guatemala**. Development of an Information and Decision Support System for the agricultural sector of Guatemala. Guatemala City, April 1997; August 1998; February 2000.
- **Inter-American Development Bank/IICA/CNPAB (EMBRAPA), Brazil**, Analysis of long-term databases, simulation models for carbon and nutrient dynamics and assessing sustainability in pasture-based systems. Brazil, May 1996 - June 1996.
- **United Nations Industrial Development Program (UNIDO) - Ministry of Industry of Paraguay**. Perform National and regional fertilizer demand projections for a fertilizer plant to be established in Paraguay. Asuncion, 1996.
- **International Atomic Energy Agency (IAEA, United Nations)**. Elaborate work plans and supervise research activities in a 5-year International Coordinated Research Program (research conducted in Latin America, Asia, Africa and Europe): *"The use of nuclear techniques for optimizing nitrogen fertilization of irrigated wheat for optimizing fertilizer application and consequently reduce environmental contamination"*. Vienna, November 1993 – November 1997.
- **National Commission for Global Change of Uruguay**. Provide technical advice in agricultural and environmental issues, elaborate research plans and prepare proposals. Montevideo, Uruguay. September 1994 - May 1997.
- **GEF/World Bank - UNDP Project: "Conservation of Biodiversity and Sustainable Development of the Wetlands of Eastern Uruguay (PROBIDES)"**. Provide technical advice to staff members in the area: "Sustainable Development". Rocha, Uruguay. September 1994 - August 1995.
- **Food and Agriculture Organization (FAO/ United Nations)**. Project: *"Barley Production Improvement in Uruguay"*, FAO/UNDP URU 88/001. Montevideo, Uruguay, May 1989 - January 1991.

Consultancies in the Private Sector

- **Advisor**, MOSA, a barley grain and malt producing/exporting company, owned by an International corporation. Provide technical advice and training for the Marketing and Agronomy Divisions. Uruguay, September 1994 - March 1999.
- **Consultant**, AgrEvo (Hoescht/Schering Argentina). Provide technical advice for the Fertilizer Division; Give technical presentations on fertilizer use for agronomists and farmers. Buenos Aires, Argentina. July 1996 and September 1997.
- **Consultant**, PEQUIVEN Fertilizer Business Unit, subsidiary of Petróleos de Venezuela S.A. Consultancy for adapting PEQUIVEN to non-subsidized market conditions. Maracay and Morón, Venezuela, October 1993 - March 1994.

Editor, Reviewer

- **Editorial Board Member**, *Agricultural Systems*. Elsevier Science. Amsterdam The Netherlands.
- **Editorial Council Member**, Journal of the International Hydrological Programme for Latin America and the Caribbean United Nations Educational, Scientific and Cultural Organization (UNESCO)
- **Proposal Review Panelist**, Inter-American Institute for Global Change Research (IAI), *Initial Science Program (ISP)*, and *Research Planning/Start-up Grants*.
- **Program Reviewer**, NOAA OGP, *Environment, Science and Development (ESD) Program*.
- **Research Program Reviewer**, National Science Foundation (NSF), USA, Program: *Regional Inst. - Global Change*.
- **Research Program Reviewer**, Environmental Research and Technology, DLR, Bonn, Germany.
- **Member of the International Evaluation Committee**, Evaluation of the Paraná Research Center, of INTA (National Agricultural Research Institute of Argentina). Paraná, Argentina.
- **Reviewer of research articles** in e.g., *Agronomy J.*, *Soil Sci. Soc. Am. J.*, *Climatic Change*, *J. Climate Change*, *Int. J. Climatology*, *Nature Climate Change*, *PNAS*, and in scientific peer-reviewed journals of Argentina, Brazil, Chile and Uruguay

Instructor

- **Lecturer**, *International Research Institute for Climate and Society (IRI)*, *Columbia University*. Lectures on Climate Risk Management, Adaptation to Climate Variability and Change, in Columbia's graduate programs. M.A. in "Climate and Society", PhD in "Sustainable Development", MPA in "Development Practice" (New York, 2004 – present).
- **Instructor**, *International Research Institute for Climate and Society (IRI)*. Training programs on "Climate Risk Management in Agriculture". Several locations worldwide, 2004 - Present
- **Instructor**, *IFDC - ICASA*. Training programs on "Information and Decision Support Systems and Simulation Models". Brazil, Argentina, Uruguay, Ecuador, Guatemala, USA (Several locations, 1995-Present)
- **Instructor**, *International Geosphere Biosphere Program (IGBP)* – Global Analysis, Interpretation and Modelling (GAIM). GAIM-LBA Modeling Workshop. Training on "Applications of the Century model to study carbon dynamics" in LBA research activities. Cachoeira Paulista, SP, Brazil.
- **Instructor**, *International Research Institute for Climate Prediction (IRI)*. Training program on: "Agricultural Applications of Seasonal to Interannual Climate Predictions", Lamont-Doherty Earth Observatory, New York, March 1995.
- **Instructor**, *National Center for Agro-Biological Research (EMBRAPA)*, Brazil. Training program for Latin American researchers and graduate students. "The Use of Simulation Models in Research on Sustainable Agriculture". July 1994.
- **Teaching Assistant**. *Department of Crop and Soil Environmental Sciences, Virginia Polytechnic Institute and State University*. Courses: "Computer Applications to Agriculture"; "Soil Fertility and Fertilizers"; "Introductory Soils", Blacksburg, Virginia, September 1984, 1985, and 1986.

EDUCATION

Ph.D., Crop and Soil Environmental Sciences, June 1987.
Virginia Polytechnic Institute and State University.

M.Sc., Crop and Soil Environmental Sciences, (Minor: Statistics), December 1984
Virginia Polytechnic Institute and State University.

B.Sc., Agricultural Engineering, December 1978
Universidad de la Republica, Uruguay.

LANGUAGE SKILLS

Fluent in English, Spanish and Portuguese. Conversant in French.

SELECTED MENTORING

- Advisor to Earth Institute Post-Doctoral Fellows
- Member of Columbia University PhD Committees, PhD Committees in Uruguay, PhD Committees in Argentina
- Advisor to dozens of Masters candidates, IRI, Columbia University.
- Line management and supervision of researcher teams and support staff at IRI since 2004.

LIST of SELECTED PUBLICATIONS

- Kruczkiewicz, A. J.; Pontual, C.; Weinberg, J.; Pereira, I.; Baethgen, W. E. 2024. Integrating Climate Disaster Risk within an Interdisciplinary Urban Agenda: Lessons Drawn from the Brazilian Experience. In: Urban Sustainable Government: Governance, Finance and Politics (pp 496-517). ISBN 978-65-992269-8-4. <https://doi.org/10.7916/mzkn-2487>
- Karl, K.; DeFries, R. S.; Baethgen, W. E.; Furtado, M.; Potent, J. B. 2024. Toward a holistic and data-driven framework to evaluate livestock-derived protein systems, *One Earth* (2024), <https://doi.org/10.1016/j.oneear.2024.02.003>
- Resnick D, Baethgen W, Hossain PR and Kadam S (2024) Exploration of a model driven by climate to simulate pond water temperature in aquaculture systems. *Front. Clim.* 6:1440671. <https://doi.org/10.3389/fclim.2024.1440671>
- Vervoort, R.W., E. Nervi, W.E. Baethgen. 2023. Integrated catchment models for policy development and decision making. *Agrociencia*, Vol 27. <https://doi.org/10.31285/AGRO.27.1194>
- Blumetto, O.; I. De Barbieri, E. Navajas, W. Baethgen, G. Becoña; G. Ciappesoni. 2023. Regenerative Livestock in Uruguay. (In Spanish) INIA. Montevideo, Uruguay. 23pp. ISBN: 978-9974-38-486-6
- Søndergaard, N.; J. F. Fernandes; J. Potent; W.E. Baethgen, K. Karl; M. Furtado. 2023. A governance framework to manage the food-environment-livelihood trilemma of alternative proteins. *One Earth* 6:843-853 <https://doi.org/10.1016/j.oneear.2023.06.008>
- Baldassini, P., W. E. Baethgen, G. Camba Sans, A. Quincke, M. V. Pravia, J. Terra, I. Macedo, G. Piñeiro, J. Paruelo. 2023. Carbon stocks and potential sequestration of Uruguayan soils. A road map to a comprehensive characterization of temporal and spatial changes to assess Carbon footprint. *Front. Sustain. Food Syst.*, 20(7) <https://doi.org/10.3389/fsufs.2023.1045734>
- González Sosa, M., Sierra, C. A., Quincke, J. A., Baethgen, W. E., Trumbore, S., and Pravia, M. V. 2023. High capacity of integrated crop-pasture systems to preserve old stable carbon evaluated in a 60-year-old experiment, *EGUsphere* [preprint], <https://doi.org/10.5194/egusphere-2023-2650>
- Anderson, W; W.Baethgen; F.Capitanioc; P. Ciais; B.I.Cook; G.R. Cunha; L.Goddard,l; B. Schauburger; K. Sonder; G. Podestá; M. van der Velde; L. You. 2023. Climate variability and simultaneous breadbasket yield shocks as observed in long term yield records. *Agricultural and Forest Meteorology* (vol 331), <https://doi.org/10.1016/j.agrformet.2023.109321>
- Han, E.; A. Faye, M. Diop, B. Singh, K. K. Ganyo and W. Baethgen. 2022. Evaluating Agronomic Onset Definitions in Senegal through Crop Simulation Modeling. *Atmosphere*, 13(12), 2122; <https://doi.org/10.3390/atmos13122122>
- Caram, N.; P. Soca, L. E. Sollenberger, W.E. Baethgen, M. O. Wallau, M.E. Mailhos 2022. Studying beef production evolution to plan for ecological intensification of grazing ecosystems, *Ag Sys* Volume 205, <https://doi.org/10.1016/j.agsy.2022.103582>
- Downs, S.M.; M.Thomson, R. J. Deckelbaum, W. Wei, W. E. Baethgen. 2022. The role of climate services in transforming nutrition. *UN-Nutrition Journal* Volume 1: Transforming Nutrition. p44-55 <https://www.fao.org/3/cc2805en/cc2805en.pdf>
- Hansen, J., G. List, S. Downs, E. R. Carr, R. Diro, W. Baethgen, A. Kruczkiewicz, M. Braun, J. Furlow, K. Walsh, N. Magima. 2022. Impact pathways from climate services to SDG2 (“zero hunger”): A synthesis of evidence. *Climate Risk Management* (35). <https://doi.org/10.1016/j.crm.2022.100399>
- Baethgen, W. E.; W. J. Parton; V. Rubio; R. H. Kelly; S. Lutz. 2021. Ecosystem dynamics of crop-pasture rotations in a fifty-year field experiment in Southern South America: Century model and field results. *SSSAJ* 85(2):423-437 <https://doi.org/10.1002/saj2.20204>
- Rizzo, G.; S.R.Mazzilli; O. Ernst, W. E. Baethgen; A. G.Berger. 2021. Season-specific management strategies for rainfed soybean in the South American Pampas based on a seasonal precipitation forecast. *Ag. Sys.* Vol 196. <https://doi.org/10.1016/j.agsy.2021.103331>

- Läderach P, Laganda G, Bucknall-Williams R, Liebig T, Taylor A, Rose A, Barroso M, Alaskary T, Baethgen W, Webster B, Dumas-Johansen M, Ferdinand T. 2021. Climate Action to transform food systems. Linking the UN Food Systems Summit and COP26 through initiatives that support greater resilience to climate change. Rome, Italy: CGIAR. Available at: <https://cgspace.cgiar.org/handle/10568/115035>
- Mer, F., Baethgen, W., & Vervoort, R.W. 2020. Building trust in SWAT model scenarios through a multi-institutional approach in Uruguay. *SESMO*, vol. 2, 17892, <https://doi.org/10.18174/sesmo.2020a17892>
- Hernandez-Aguilera, J.N., M. Mauerman, A. Herrera, K.Vasilaky, W. Baethgen, A. M. Loboguerrero, R. Diro, Y. Tesfamariam Tekeste and D. Osgood. 2020. Games and Fieldwork in Agriculture: A Systematic Review of the 21st Century in Economics and Social Science. *Games* 11(4), 47; <https://doi.org/10.3390/g11040047>
- Hernandez-Aguilera, J.N.; A. M. Loboguerrero, A. Herrera, W.E. Baethgen. 2020. Harnessing digital tools for climate and agriculture. *CCAFS Agclim Letters*. Aug 5, 2020. <https://ccafs.cgiar.org/blog/harnessing-digital-tools-climate-and-agriculture#.X0EQ3i05Q5u>
- Anderson, W.; E. Han; W.E. Baethgen; L. Goddard; A.G. Muñoz; A. W. Robertson. 2020. The Madden-Julian Oscillation affects crop yields around the world. *Geophysical Research Letters*. Published Online, 30 Jan 2020 <https://doi.org/10.1002/essoar.10501965.1>
- Goddard, L., C. González Romero, A.G. Muñoz, N.Acharya, S.Ahmed, W.E.Baethgen, (et al.). 2020. Climate Services Ecosystems in times of COVID-19. *WMO Bull.* 69(2):39-46
- Hansen, J., J. Furlow, L. Goddard, H. Nissan, C. Vaughan, A. Rose, F. Fiondella, M. Braun, A. Steynor, C. Jack, P. Chinowsky, M. Thomson, W. Baethgen, T. Dinku, A. Yirgu Senato, D. M. Phuong, S. Huq, O. Ndiaye. 2019. Scaling Climate Services to Enable Effective Adaptation Action. Rotterdam and Washington, DC. Available online at www.gca.org
- Tiscornia, G.; W.E. Baethgen, A. Ruggia, M. Do Carmo and P. Ceccato. 2019. Can we Monitor Height of Native Grasslands in Uruguay with Earth Observation? *Remote Sens.* 11(15) 1801; <https://doi.org/10.3390/rs11151801>
- Anderson, W.B.; R. Seager, W. Baethgen, M. Cane and L. You. 2019. Synchronous crop failures and climate-forced production variability. *Science Advances* Vol. 5 (7), DOI: 10.1126/sciadv.aaw1976
- Baethgen, W.E. 2019. Embedding Adaptation to Climate Variability and Change into Actual Decisions, Policies and Development Plans. *Agrociencia* 23(1):1-3 ISSN 2301-1548
- Tiscornia, G.; M. Jaurena; W.E. Baethgen. 2019. Drivers, Process, and Consequences of Native Grassland Degradation: Insights from a Literature Review and a Survey in Río de la Plata Grasslands. *Agron*9(5) 239-260 <https://doi.org/10.3390/agronomy9050239>
- Nissan, H.; L. Goddard; E. Coughlan de Perez; J. Furlow; W.E. Baethgen; M. C. Thomson; S.J. Mason. 2019. On the use and misuse of climate change projections in international development. *WIREs Clim Change*. 2019; e579. DOI: 10.1002/wcc.579
- Terra, R and W. E. Baethgen. 2019. Lessons Learned in 25 Years of Informing Sectoral Decisions with Probabilistic Climate Forecasts (pp 440-453). IN: Sub-Seasonal to Seasonal Prediction: The Gap Between Weather and Climate Forecasting. A. W. Robertson and F. Vitart (Eds.), Elsevier, Amsterdam, Netherlands
- Han, E.; W. E.Baethgen, A.V.M. Ines, F. Mer, J. Soler Souz, M. Berterretche, G.Atunez, C. Barreira. 2019. SIMAGRI: An agro-climate decision support tool. *Comp & Elect. In Agric.* Volume 161, Pages 241-251 <https://doi.org/10.1016/j.compag.2018.06.034>
- Thornton, P K; Whitbread, A M; Baedeker, T; and Cairns, J; Claessens, L; Baethgen, W; Bunn, C; Friedmann, M; Giller, K E; Herrero, M; Howden, M; Kilcline, K; Nangia, V; Ramirez-Villegas, J; Kumar, S; West, P C; Keating, B (2018) A framework for priority-setting in climate smart agriculture research. *Agricultural Systems* (167):161-175.

- Lovino, M.A., O. V. Müller, G. V. Müller, L. C. Sgroi, and W. E. Baethgen. 2018. Interannual-to-multidecadal hydroclimate variability and its sectoral impacts in northeast Argentina Hydrol. Earth Syst. Sci., 22, 3155-3174
<https://doi.org/10.5194/hess-22-3155-2018>
- Adler, P.R.; S. Spatari, F. D'Ottone, D. Vazquez, L. Peterson, S. J. Del Grosso, W. E. Baethgen, W. J. Parton. 2018. Legacy effects of individual crops affect N₂O emissions accounting within crop rotations. Global Change Biology Bioenergy 10:123–136, doi: 10.1111/gcbb.12462
- G. Cruz, W. E. Baethgen, Bartaburu, M. Bidegain, A. Giménez, M. Methol, Morales, V. Picasso, G. Podestá, R. Taddei, R. Terra, G. Tiscornia, M. Vinocur. 2018. Thirty Years of Multilevel Processes for Adaptation of Livestock Production to Droughts in Uruguay. Weather, Climate, and Society 10(1):59-74. doi:10.1175/WCAS-D-16-0133.1
- Gerlak, A.K; Z. Guido, C. Vaughan, V. Rountree, C. Greene, D. Liverman, A. R. Trotman, R. Mahon, S. Cox, S. J. Mason, K. L. Jacobs, J. L. Buizer, C J. Van Meerbeeck, W.E. Baethgen. 2018. Building a Framework for Process-Oriented Evaluation of Regional Climate Outlook Forums. Weath. Clim. and Soc. (AMS), 10(2):225-239. DOI: 10.1175/WCAS-D-17-0029.1
- Anderson, W.; R. Seager, W. Baethgen and M. Cane. 2017. Life cycles of agriculturally relevant ENSO teleconnections in North and South America Int. J. Climatol. 37: 3297–3318 (2017) DOI: 10.1002/joc.4916
- Vaughan, C., Dessai, S., Hewitt, C., Baethgen, W., Terra, R. and M. Berterreche. 2017. Creating an enabling environment for investment in agricultural climate services: The case of Uruguay's National Agricultural Information System. Climate Services. 8:62-71.
- Cobon, D.H.; W. E. Baethgen, W. Landman, A. Williams, E. Archer van Garderen, P. Johnston, J. Malherbe, P. Maluleke, I. Ben Kgakatsi and P. Davis. 2017. Agroclimatology in Grasslands. In: J. L. Hatfield, M. V.K. Sivakumar, J. H. Prueger, editors, 2017. Agroclimatology: Linking Agriculture to Climate. Agron. Monogr. 60. ASA, CSSA, and SSSA, Madison, WI. doi:10.2134/agronmonogr60.2014.0059
- Han, E; A.V.M. Ines; W.E. Baethgen. 2017. Climate-Agriculture-Modeling and Decision Tool (CAMDT): A software framework for climate risk management in agriculture. J. Env. Mod. Soft. 95:102–114
- Pérez Bidegain M., Piaggio, J. M., Baethgen, W.E., García Préchac F. 2017. Rainfall Erosivity Factor Update in Uruguay. Agrociencia 21(2):91-99 ISSN 1510 0839
- Giménez, A.; W.E. Baethgen, A. Cal, P. Ceccato, G. Tiscornia, A. Pisón. 2017. Integrated remote sensing and modeling for identifying crops and estimating grain yields (in Spanish) INIA (49):45-49
- Loboguerrero, A.M; J. Hansen, W.E. Baethgen and D. Martinez-Baron. 2017. Climate services and insurance: scaling climate-smart agriculture. Agric. Dev. (30):31-34
- Fernandes, K., L. Verchot, W. Baethgen, V. Gutierrez-Velez, M. Pinedo-Vasquez, C. Martius. 2017. Heightened fire probability in Indonesia in non-drought conditions: the effect of increasing temperatures. Environ. Res. Lett. (12) 5
<https://doi.org/10.1088/1748-9326/aa6884>
- Baethgen, W. E.; M. Berterreche, A. Gimenez. 2016. Informing Decisions and Policy: the National Agricultural Information System of Uruguay. Agrometeoros (24): 97-112
- Capa-Morocho, M; A.V.M. Ines; W. E. Baethgen; B. Rodríguez-Fonseca, E. Han; M. Ruiz-Ramos. 2016. Crop yield outlooks in the Iberian Peninsula: connecting seasonal climate forecasts with crop simulation models. Agric. Systems (149):75–87
- Kanter, D.R; M.H Schwoob, W. E. Baethgen, J.E. Bervejillo, M. Carriquiry, A. Dobermann, B. Ferraro, B. Lanfranco, M. Mondelli, C. Penengo, R. Saldias, M. E. Silva, J.M. Soares de Lima. 2016. Translating the Sustainable Development Goals into action: A participatory backcasting approach for developing national agricultural transformation pathways. Global Food Security (10):71–79

- Lizarralde, C.; V. Ciganda; W. E. Baethgen; A. Quincke. 2016. Nutrient losses in runoff water from contrasting crop rotations. INIA 46:43-45 (in Spanish)
- Magrin, G.; U. Confalonieri; O. Canziani; W. Baethgen; M. I. Travasso. 2016. The quest for sustainable agricultural systems. In: L. A. C. Galvão, J. Finkelman and Samuel Henao (Eds.) Environmental and Social Determinants of Health. Pp. 477-504. Washington, DC: PAHO, 2016.
- Fernandes, K.; A. Giannini, L. Verchot, W. Baethgen, M. Pinedo-Vasquez. 2015. Decadal co-variability of Atlantic SSTs and western Amazon dry-season hydroclimate in observations and CMIP5 simulations. Geophysical Research Letters. Published online: <http://onlinelibrary.wiley.com/doi/10.1002/2015GL063911/full>
- Muñoz, A., L. Goddard, A. W. Robertson, Y. Kushnir, and W. E. Baethgen, 2015: Cross-time scale interactions and rainfall extreme events in southeastern South America for the austral summer. Part I: Potential predictors. J. Climate, 28, 7894–7913, doi:10.1175/JCLI-D-14-00693.1
- Lovino, M.; N. O. García; W.E. Baethgen. 2014. Spatiotemporal analysis of extreme precipitation events in the Northeast region of Argentina (NEA) J. Hydrol: Regional Studies. 2:140–158
- Robertson, A.W.; W.E. Baethgen, P. Block, U. Lall, A. Sankarasubramanian, de Assis de Souza Filho, K. M. J. Verbist. 2014. Climate risk management for water in semi-arid regions. Earth Perspectives 2014, 1:12
- Goddard, L., W. E. Baethgen, H. Bhojwani, A. W. Robertson. 2014. The International Research Institute for Climate & Society: why, what and how. Earth Perspectives 2014, 1:10
- Gutierrez-Velez, V., Uriarte, M., DeFries, R., Pinedo-Vasquez, M., Fernandes, K., Ceccato, P., Baethgen, W., Padoch, C. 2014. Land cover changes interact with climate to change fire regimes in Western Amazonia. Ecological Applications 24:1323–1340
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