

Guillermo P. Podestá. Research Professor

University of Miami, Rosenstiel School of Marine and Atmospheric Science. Division of Meteorology and Physical Oceanography. 4600 Rickenbacker Causeway, Miami FL 33149-1098, USA. E-mail: gpodesta@rsmas.miami.edu

Guillermo Podestá is a Research Professor at the University of Miami's Rosenstiel School of Marine and Atmospheric Sciences. Because of his earlier training in Agronomy, Dr. Podestá has become involved in studies of ENSO-related climate variability and agriculture. He has led various projects exploring end-to-end applications of climate forecasts to improve decision-making in the agricultural sectors of Argentina and the southeastern United States. He is also active in the development and testing of algorithms to estimate sea surface temperature (SST) from satellite-based infrared radiometers.

Publications most relevant to this proposal

Podestá, G. P., C. E. Natenzon, C. Hidalgo and Fernando Ruiz Toranzo. 2012. Interdisciplinary Production of Knowledge with Participation of Stakeholders: A Case Study of a Collaborative Project on Climate Variability, Human Decisions and Agricultural Ecosystems in the Argentine Pampas. *Environmental Science and Policy* 6: 40-48, doi: <http://dx.doi.org/10.1016/j.envsci.2012.07.008>.

Bert F., G.P. Podestá, S. Rovere, A. Menéndez, M. North, E. Tatara, C. E. Laciana, E. Weber, and F. Ruiz Toranzo. 2011. An Agent Based Model to Simulate Structural and Land Use Changes in Agricultural Systems of the Argentine Pampas. *Ecological Modelling* 222: 3486-3499, doi:10.1016/j.ecolmodel.2011.08.007.

Podestá, G.P., F. Bert, B. Rajagopalan, S. Apipattanavis, C. Laciana, E. Weber, W. Easterling, R. Katz, D. Letson and A. Menéndez. 2009. Decadal climate variability in the Argentine Pampas: regional impacts of plausible climate scenarios on agricultural systems. *Climate Research* 40: 199-210. doi: 10.3354/cr00807.

Letson, D., G.P. Podestá, C. Messina and R.A. Ferreyra. 2005. The uncertain value of perfect ENSO phase forecasts: stochastic agricultural prices and intra-phase climatic variations. *Climatic Change* 69(2-3): 163-196. DOI: 10.1007/s10584-005-1814-9.

Podestá, G.P., D. Letson, C. Messina, F. Royce, R.A. Ferreyra, J. Jones, J. Hansen, I. Llovet, M. Grondona, J.J. O'Brien. Use of ENSO-related climate information in agricultural decision making in Argentina: a pilot experience. *Agricultural Systems* 74: 371-392.

Relevant experience and achievements: 1) Investigator in IAI-funded CRN-3035 focused on design and implementation of operational climate services in southern South America. 2) Organized three instances (1999-2001) of the IAI/University of Miami Summer Institute on Interdisciplinary Science in the Americas to bring together researchers from the natural and social sciences in order to address complex, multi-faceted global change issues. 3) Investigator at the Center for Research on Environmental Decisions (CRED) based at Columbia University. CRED seeks to understand decision-making under risk and uncertainty.