

Curriculum Vitae
Guillermo P. Podestá

1. **Date:** 15 October 2014

PERSONAL

2. **Name:** Guillermo Pablo Podestá
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5. **Home Address:** 150 Ocean Lane Drive, #8-H,
Key Biscayne, FL 33149 USA
6. **Current Academic Rank:** Research Professor
7. **Primary Department:** Division of Meteorology and Physical Oceanography,
Rosenstiel School of Marine & Atmospheric Science
4600 Rickenbacker Causeway, Miami, Florida 33149, USA
8. **Joint Appointment:** Division of Marine Affairs and Policy (secondary)
9. **Citizenship:** Argentina
10. **Visa Type:** Resident Alien

HIGHER EDUCATION

11. Institutional:

1979	B.S.	University of Buenos Aires, Facultad de Agronomía (School of Agronomy), Buenos Aires, Argentina, Degree: Ingeniero Agrónomo, Specialty: Animal Husbandry.
1987	Ph.D.	Biological Oceanography, University of Miami, Rosenstiel School of Marine and Atmospheric Science, Miami, Florida, USA.

12. Non-Institutional: None

13. Certification, licensure: None

EXPERIENCE

14. Academic:

6/2005-pres.	Research Professor	Rosenstiel School, MPO and MAF
6/97-5/2005	Research Associate Professor	Rosenstiel School, MPO and MBF
4/91-5/97	Research Assistant Professor	Rosenstiel School, MPO and MBF

1989–3/91	Post-Doctoral Research Associate	Rosenstiel School Remote Sensing Group, and Cooperative Institute for Marine and Atmospheric Studies, U. Miami
1988–1989	National Research Council Resident Research Associate	U.S. National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD.
4/84-12/87	Graduate Research Assistant	Remote Sensing Group, Rosenstiel School, U. Miami
1/84-4/84	Graduate Teaching Assistant	Div. of Biology and Living Resources, Rosenstiel School, U. Miami
4/83-12/83	Graduate Research Assistant	Div. of Meteorology and Physical Oceanography, Rosenstiel School, U. Miami
8/81-4/83	Graduate Research Assistant	Tinker Center for Coastal and Marine Studies in Latin America, U. Miami

15. Non-Academic: None**16. Military: None****PUBLICATIONS****17. Books and monographs published:**

- Arbelo, M., A. B. Ruescas, G. Podestá, A. Barreto, P. A. Hernandez-Leal. 2008. Remote Sensing of Aerosols over the Oceans for the Thermal-Infrared Atmospheric Correction. In: Niclos, R., and V. Caselles (eds), *Ocean Remote Sensing: Recent Techniques and Applications*, Research Signpost, Kerala, India, pp. 97-110.
- Podestá, G.P., E.U. Weber, C. Laciana, F. Bert, and D. Letson. 2008. Agricultural decision-making in the Argentine Pampas: modeling the interaction between uncertain and complex environments and heterogeneous and complex decision makers. In: T. Kugler, T., J.C. Smith, T. Connolly, and Y.-J. Son (Eds.), *Decision Modeling and Behavior in Uncertain and Complex Environments*, Springer Optimization and Its Applications, Vol. 21, pp 57-78. ISBN 978-0-387-77130-4.
- Arbelo, M., G.P. Podestá, R. Evans and K. Kilpatrick. 2005. Improving global satellite-based surface temperature climatologies. In: Caselles, V., E. Valor, and C. Coll (eds), *Recent research developments in thermal remote sensing*, Research Signpost, Kerala, India, pp. 67-88.
- Podestá, G.P. 1997. Utilización de datos satelitarios en investigaciones oceanográficas y pesqueras en el Océano Atlántico sudoccidental [Use of satellite data in oceanographic and fishery studies in the SW Atlantic. In: Boschi, E.E. (ed.), *El Mar Argentino y sus Recursos Pesqueros. Tomo I. Antecedentes históricos de las exploraciones en el mar y las características ambientales*. Instituto Nacional de Investigación y Desarrollo Pesquero, Mar del Plata, Argentina, pp. 195–222.

18. Juried or refereed journal articles and exhibitions:

2014

Bert F., S. L. Rovere, C. M. Macal, M. J. North, and G. P. Podestá. 2014. Lessons from a comprehensive validation of an agent based-model: The experience of the Pampas Model of Argentinean agricultural systems. *Ecological Modelling* 273: 284–298. <http://dx.doi.org/10.1016/j.ecolmodel.2013.11.024>

2013

Laciana, C. E., S. L. Rovere and G. P. Podestá. 2013. Exploring associations between micro-level models of innovation diffusion and emerging macro-level adoption patterns. *Physica A* 392: 1873-1884. doi:10.1016/j.physa.2012.12.023.

Reed, M.S., G. Podestá, I. Fazey, N. Geeson, R. Hessel, K. Hubacek, D. Letson, D. Nainggolan, C. Prell, M.G. Rickenbach, C. Ritsema, G. Schwilch, L.C. Stringer, A.D. Thomas. 2013. Combining analytical frameworks to assess livelihood vulnerability to climate change and analyse adaptation options. *Ecological Economics* 94: 66-77.

2012

Kim, Y., R. W. Katz, B. Rajagopalan, G. P. Podestá and E. M. Furrer. 2012. Reducing overdispersion in stochastic weather generators using a generalized linear modeling approach. *Climate Research* 53: 13-24. doi: 10.3354/cr01071.

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>.

2011

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.

Orlove, B., R. Taddei, G. Podestá and K. Broad. 2011. Environmental Citizenship in Latin America: Climate Change, Intermediate Organizations and Political Subjects. *Latin American Research Review* 46: 115-140.

Hidalgo, C., C. E. Natenzon, and **G.P. Podestá**. 2011. From enthusiasm to pragmatism: shifting perspectives of success in interdisciplinary research. *Interciencia* 36(2): 113-120. ISSN 0378-1844.

McConnell, W. J., J. D. A. Millington, N. J. Reo, M. Alberti, H. Asbjornsen, L. A. Baker, N. Brozović, L. E. Drinkwater, S. A. Drzyzga, J. Fragoso, D. S. Holland, C. A. Jantz, T. A. Kohler, H. D. G. Maschner, M. Monticino, G. Podestá, R. G. Pontius, Jr., C. L. Redman, D. Sailor, G. Urquhart, and J. Liu. 2011. Research on Coupled Human and Natural Systems (CHANS): Approach, Challenges, and Strategies. *Bulletin of the Ecological Society of America* 92:218–228. [doi:10.1890/0012-9623-92.2.218]

2010

Apipattanavis S., F. Bert, G. Podestá and B. Rajagopalan. 2010. Linking weather generators and crop models for assessment of climate forecast outcomes. *Agricultural and Forest Meteorology* 150: 166–174. doi:10.1016/j.agrformet.2009.09.012.

Bert F., G.P. Podestá, S. Rovere, X. González, A. Menéndez, F. Ruiz Toranzo, M. Torrent, M. North, C. Macal, P. Sydelko, E. Weber, and D. Letson. 2010. Agent based simulation of recent changes in agricultural systems of the Argentine Pampas. Proceedings of the 4th Meeting on Dynamics of Social and Economic Systems. *Advances and Applications in Statistical Sciences* 2(2): 213-231.

2009

Letson, D., C.E. Laciana, F. E. Bert, E. U. Weber, R. W. Katz, X. I. González and G. P. Podestá. 2009. Value of perfect ENSO phase predictions for agriculture: evaluating the impact of land tenure and decision objectives. *Climatic Change* 97: 145-170. doi: 10.1007/s10584-009-9600-8.

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.

2008

Barsky, A., G. Podestá and F. Ruiz Toranzo. 2008. Percepción de variabilidad climática, uso de información y estrategias de los agentes frente al riesgo. Análisis de esquemas decisionales en agricultores de la región pampeana argentina [Perception of climate variability, information use and strategies of the agents in the face of risk. Characterizing mental models in decision-making of farmers from the Argentine Pampas]. *Mundo Agrario – Revista de Estudios Rurales* 8(16):00-00, ISSN 1515-5994. Available online at: http://163.10.30.203:8080/mundo_agrario/numeros/no-16-1er-sem-2008/percepcion-de-variabilidad-climatica-uso-de-informacion-y-estrategias-de-los-agentes-frente-al-riesgo-analisis-de-esquemas-decisionales-en-agricultores-de-la-region-pampeana-argentina.

Vedwan, N., S. Ahmad, F. Miralles-Wilhelm, K. Broad, D. Letson, and G. Podestá. 2008. Institutional evolution in Lake Okeechobee management in Florida: characteristics, impacts, and limitations. *Water Resources Management*: 22:699-718.

2007

Apipattanavis, S., G. Podestá, B. Rajagopalan and R. W. Katz. A semiparametric multivariate and multisite weather generator. *Water Resources Research* 43, W11401, doi: 10.1029/2006WR005714.

Bert, F., G.P. Podestá, E.H. Satorre and C.D. Messina. Usability of climate information on decisions related to soybean production systems of the Argentinean Pampas. *Climate Research* 33: 123-134.

Bert, F., C.E. Laciana, G.P. Podestá, E.H. Satorre and A.N. Menéndez. Sensitivity of CERES-Maize simulated yields to uncertainty in soil properties and daily solar radiation. *Agricultural Systems* 94: 141-150.

Cabrera, V.E., D. Letson and G.P. Podestá. 2007. The value of climate information when farm programs matter. *Agricultural Systems* 93: 25-42.

Hidalgo, C., C.E. Natenzon and G.P. Podestá. 2007. Interdisciplina: construcción de conocimiento en un proyecto internacional sobre variabilidad climática y agricultura [Interdiscipline: knowledge construction in an international research project on climate variability and agricultura]. *Revista Ibero-Americana de Ciencia, Tecnología y Sociedad* 9(3): 53-68.

Manuel-Navarrete D., G. Gallopín, M. Blanco, M. Díaz-Zorita, D. Ferraro, H. Herzer, P. Laterra, M. Murmis, G. Podestá, J. Rabinovich, E. Satorre, F. Torres, E. Viglizzo. 2007. Multi-causal and integrated assessment of sustainability: the case of agriculturization in the Argentine Pampas. *Environment, Development and Sustainability*. DOI: 10.1007/s10668-007-9133-0

2006

Bert, F., E.H. Satorre, F. Ruiz Toranzo and G.P. Podestá. Climatic information and decision-making in maize production systems of the Argentinean Pampas. *Agricultural Systems* 88: 180-204.

Cabrera, V.E., C. Fraisse, D. Letson, G. Podestá and J. Novak. Impact of climate information on reducing farm risk by optimizing crop insurance strategy. *Transactions of the American Society of Agricultural Engineers* 49(4): 1223-1233.

2005

Miralles-Wilhelm, F., P. Trimble, G.P. Podestá, D. Letson and K. Broad. Climate-Based Estimation of Inflow into Lake Okeechobee, FL. *American Society of Civil Engineers, Journal of Water Resources Planning and Management* 131: 394-401.

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.

2004

Podestá, G.P., L. Nuñez, C.A. Villanueva, and M.A. Skansi. 2004. Estimating daily solar radiation in the Argentine Pampas. *Agricultural and Forest Meteorology* 123: 41-53.

Xavier, J.C., P.N. Trathan, J.P. Croxall, A.G. Wood, G.P. Podestá and P.G. Rodhouse. Foraging ecology and interactions with fisheries of wandering albatrosses at South Georgia. *Fisheries Oceanography* 13: 324-344.

2003

Kumar, A., P. Minnett, G. Podestá and R. Evans. 2003. Error characteristics of the atmospheric correction algorithms used in retrieval of sea surface temperatures from infrared satellite measurements: Global and regional aspects. *Journal of the Atmospheric Sciences* 60: 575-585.

Podestá, G.P., M. Arbelo, R.H. Evans, K.A. Kilpatrick, V. Halliwell and J. Brown. 2003. Errors in high-latitude SSTs and other geophysical products linked to NOAA-14 AVHRR channel 4 problems. *Geophysical Research Letters* 30(11): 1548-, doi:10.1029/2003GL017178.

Arbelo, M., G.P. Podestá, P.A. Hernández-Leal and J.P. Díaz. 2003. Use of TOMS data to correct the Saharan dust effects on SST retrievals from satellite. *Advances in Space Research* 32(11): 2175-2180.

2002

Lentini, C.A.D., D.B. Olson, and G.P. Podestá. Statistics of Brazil Current rings observed from AVHRR: 1993 to 1998. *Geophysical Research Letters* 29(16): 1811-, doi: 10.1029/2002GL015221.

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.

Jagtap, S.S., J.W. Jones, P. Hildebrand, D. Letson, J.J. O'Brien, G.P. Podestá, F. Zazueta and D. Zierden. Responding to stakeholders' demands for climate information: from research to practical applications in Florida. *Agricultural Systems* 74: 415-430.

2001

Podestá, G.P. and P.G. Glynn.. The 1997-1998 El Niño event in Panamá and Galápagos: an update of thermal stress indices relative to coral bleaching. *Bulletin of Marine Science* 69: 43-59.

Waluda, C.M., P.G. Rodhouse, G.P. Podestá, P.N. Trathan and G.J. Pierce. Surface oceanography of the inferred hatching grounds of *Illex argentinus* (Cephalopoda: Ommastrephidae) and influences on recruitment variability. *Marine Biology* 139: 671-679.

Letson, D., J.W. Hansen, P.E. Hildebrand, J.W. Jones, J.J. O'Brien, G.P. Podestá, F.S. Royce and D.F. Zierden. 2001. Florida's agriculture and climate variability: Reducing vulnerability. *The Florida Geographer* 32: 38-57.

Letson, D., I. Llovet, G. Podestá, F. Royce, V. Brescia, D. Lema, and G. Parellada. User perspectives of climate forecasts: crop producers in Pergamino, Argentina. *Climate Research* 19: 57-67.

Lentini, C.A.D., G.P. Podestá, E.D.J. Campos, and D.B. Olson. Sea surface temperature anomalies on the western South Atlantic from 1982 to 1994. *Continental Shelf Research* 21: 89-112.

Ferreyra, R.A., G.P. Podestá, C.D. Messina, D. Letson, J. Dardanelli, E.Guevara, and S. Meira. A linked-modeling framework to estimate maize production risk associated with ENSO-related climate variability in Argentina. *Agricultural and Forest Meteorology*. 107: 177-192.

Kilpatrick, K., G.P. Podestá, and R. H. Evans. Overview of the NOAA/NASA Pathfinder version 4.2 algorithm for sea surface temperature and associated matchup database. *Journal of Geophysical Research* 106: 9179-9197.

Díaz, J.P., M. Arbelo, F.J. Expósito, G. Podestá, J.M. Prospero, and R. Evans. Relationship between errors in AVHRR-derived sea surface temperature and the TOMS aerosol index. *Geophysical Research Letters* 28: 1989-1992.

2000

Lentini, C.A.D., E.D.J. Campos, and G.P. Podestá. 2000. The annual cycle of satellite-derived sea surface temperature on the western South Atlantic shelf. *Revista Brasileira de Oceanografia* 48: 93-105 [Brazilian Oceanographic Journal].

Grondona, M.O., G.P. Podestá, M. Bidegain, M. Marino and H. Hordij. A stochastic precipitation generator conditioned on ENSO phase: a case study in southeastern South America. *Journal of Climate*. 13: 2973-2986.

Vigan, X., C. Provost and G. Podestá. Sea surface velocities from sea surface temperature image sequences. Part II: Application to the Brazil-Malvinas Confluence area. *Journal of Geophysical Research* 105: 19,515-19,534.

Kumar, A., P. Minnett, G. Podestá, R. Evans, and K. Kilpatrick. 2000. Analysis of Pathfinder SST algorithm for Global and Regional Conditions. *Proceedings of Indian Academy of Sciences (Earth and Planetary Sciences)* 109: 395-405 — JGOFS Special Issue.

1999

Podestá, G.P., C. D. Messina, M.O. Grondona and G.O. Magrin. Associations between grain crop yields in central-eastern Argentina and El Niño-Southern Oscillation. *Journal of Applied Meteorology* 38: 1488–1498.

Boebel, O., C. Schmid, G. Podestá, and W. Zenk. Intermediate water in the Brazil-Malvinas Confluence Zone: A Lagrangian view. *Journal of Geophysical Research* 104: 21,063–21,082.

1998

Fratantoni, P.S., T.N. Lee, G.P. Podestá and F. Müller-Karger. The influence of Loop Current perturbations on the formation and evolution of Tortugas eddies in the southern Straits of Florida. *Journal of Geophysical Research* 103: 24,759–24,779.

1997

Podestá, G.P. and P.W. Glynn. Sea surface temperature variability in Panamá and Galápagos: Extreme temperatures causing coral bleaching. *Journal of Geophysical Research* 102: 15,749–15,759.

Brown, C.W. and G.P. Podestá. Remote sensing of coccolithophore blooms in the Western South Atlantic Ocean. *Remote Sensing of Environment* 60: 83–91.

1996

Gilbert, P.S., T.N. Lee and G.P. Podestá. Mississippi River water observed in the Florida Straits; September 1993. *Continental Shelf Research* 16: 1065–1085.

Gayoso, A.M. and G.P. Podestá. Surface hydrography and phytoplankton of the Brazil-Malvinas currents confluence. *Journal of Plankton Research* 18: 941–951.

1995

Ortner, P.B., T.N. Lee, P.J. Milne, R.G. Zika, M. E. Clarke, G.P. Podestá, P.K. Swart, P.A. Tester, L.P. Atkinson and W.R. Johnson. Mississippi River Flood Waters Reached the Gulf Stream. *Journal of Geophysical Research* 100: 13,595–13,601.

Schmid, C., H. Schäffer, G.P. Podestá and W. Zenk. The Vitória eddy. *Journal of Physical Oceanography* 25: 2532–2546.

Goñi, G., G.P. Podestá, O. B. Brown and J. Brown. Mesoscale ocean variability signal from altimeter data in the SW Atlantic Ocean: a comparison of orbit error correction in three Geosat data sets. *Boletim do Instituto Oceanográfico, Univ. de São Paulo* 43: 101–110.

1994

Olson, D.B., G.L. Hitchcock, A.J. Mariano, C.J. Ashjian, G. Peng, R.W. Nero and G.P. Podestá. Life on the Edge: Marine Life and Fronts. *Oceanography* 7: 52–60.

1993

Podestá, G.P., J.A. Browder and J. J. Hoey. Exploring the association between swordfish catch rates and thermal fronts on U.S. longline grounds in the western North Atlantic. *Continental Shelf Research* 13: 253–277.

1992

Podestá, G.P. and O.B. Brown. Spatial and temporal patterns of satellite-derived sea surface temperatures in the western tropical Atlantic Ocean and Caribbean Sea, January 1982–June 1989. *Caribbean Marine Studies* 3: 1–19.

Garzoli, S.L., Z. Garraffo, G.P. Podestá and O.B. Brown. Analysis of a general circulation model product. Part 1: The geometry of the GCM in the Brazil/Malvinas and Kuroshio/Oyashio systems. *Journal of Geophysical Research* 97: 20,117–20,138.

1991

Podestá G.P., O.B. Brown and R.H. Evans. The annual cycle of satellite-derived sea surface temperature in the Southwest Atlantic Ocean. *Journal of Climate*, 4: 457–467.

1990

Podestá, G.P. The migratory pattern of Argentine hake (*Merluccius hubbsi*) and oceanic processes in the Southwestern Atlantic Ocean. *Fishery Bulletin*, 88: 167–177.

1988

Olson, D.B., G.P. Podestá, R.H. Evans and O.B. Brown. Temporal variations in the separation of the Brazil and Malvinas Currents. *Deep-Sea Research* 35: 1971–1990.

1987

Podestá, G.P. The relative fishing power of the Argentinian offshore fleet fishing for hake (*Merluccius hubbsi*) in 1978 and 1979. *Journal du Conseil International pour l'Exploration de la Mer* 43: 268–271.

19. Other works, publications and abstracts:**a. Non peer-reviewed****In Press**

Podestá, G.P., M. M. Skansi, N. Herrera, H. Veiga and S. Rovere. In press. Diseño del proceso de control de calidad de datos climáticos diarios en el Centro Regional del Clima para el Sur de América del Sur. Serie Reportes Técnicos, Centro Regional del Clima para el Sur de América del Sur – Reporte Técnico CRC-SAS-2013-001.

Veiga, H. N. Herrera, M. M. Skansi and G. P. Podestá. In press. Descripción de controles de calidad de datos climáticos diarios implementados por el Centro Regional del Clima para el Sur de América del Sur. Serie Reportes Técnicos, Centro Regional del Clima para el Sur de América del Sur – Reporte Técnico CRC-SAS-2013-002.

2013

Podestá, G. P., C. Hidalgo and E. H. Berbery. 2013. Towards usable climate science: research supporting provision of regional climate services. *CLIVAR Exchanges* No. 63 (Vol. 18 No.3), pp 28-33. Available at: <http://www.clivar.org/sites/default/files/Exchanges/Exchanges63.pdf>.

2011

Bert, F., D. Letson, and G.P. Podestá. 2011. The economic value of climate information. Inter-American Institute for Global Change Research (IAI) Newsletter 2: 12-15. ISSN 1563-3225.

2008

Bert, F. H. and G. P. Podestá. Variabilidad climática y toma de decisiones en el cultivo de maíz [Climate variability and decision-making in maize cropping systems]. In: E. Satorre (coordinator), *Producción de Maíz*, Asociación Argentina de Consorcios regionales de Experimentación Agrícola (AACREA), Buenos Aires, Argentina, ISBN 978-987-1513-00-0, pp. 87-94.

2007

Bert, F.H., C.E. Laciana, G. P. Podestá and E. Weber. 2007. Recomendaciones a medida: modelos de simulación para facilitar la toma de decisiones productivas y empresariales [Tailored advice: simulation models to facilitate production and business decision-making]. AACREA Magazine, issue number 323, pp. 48-54.

2005

Manuel-Navarrete, D., G. Gallopín, M. Blanco, M. Díaz-Zorita, D. Ferraro, H. Herzer, P. Laterra, J. Morello, M.R. Murmis, W. Pengue, M. Piñeiro, G. Podestá, E.H. Satorre, M. Torrent, F. Torres, E. Viglizzo, M.G. Caputo and A. Celis. 2005. Análisis sistémico de la agriculturización en la pampa húmeda argentina y sus consecuencias en regiones extra-pampeanas: sostenibilidad, brechas de conocimiento e integración de políticas. Comisión Económica para América Latina y el Caribe (CEPAL, United Nations' Economic Commission for Latin America and the Caribbean), Serie Medio Ambiente y Desarrollo no. 118.

Vedwan, N., K. Broad, D. Letson, K.T. Ingram, G. Podestá, N.E. Breuer, J.W. Jones and J.J. O'Brien. Assessment of climate information dissemination efforts by the Florida Climate Consortium. Southeast Climate Consortium Technical Report Series SECC-05-001. Gainesville, FL.

2004

Weiler, C.S. and the Workshop Participants. Meeting the needs of interdisciplinary Ph.D. graduates in a changing global environment. Report from a workshop. October 3-6, 2003, Catalina Island, California. 20 pp.

2003

Ogden, J.C., G.P. Podestá, A. Zingone, W.J. Wiebe and R.A. Myers. Las ciencias del mar en la Argentina [Marine sciences in Argentina]. Ciencia Hoy 13: 23-46.

Podestá, G.P., K. Broad, D. Letson, E. Weber, J.W. Hansen, E. Satorre, H. Herzer, B. Rajagopalan and A. Menéndez. Interannual climate variability and agriculture in Argentina: What did we learn? Background paper for workshop "Insights and Tools for Adaptation: Learning from Climate Variability", NOAA/OGP, Washington, DC, 18-21 November 2003.

Satorre, E.H., F. Ruiz Toranzo, F. Bert and G. P. Podestá. Información climática y toma de decisiones en la producción de maíz [Climate information and decision making in maize production systems]. In "Uso de información climática para la toma de decisiones en la producción agrícola" [Use of climate information in decision-making in agricultural production systems], a special supplement to AACREA Magazine, number 269, March 2003.

Arbelo, M., G. P. Podestá and P. A. Hernández-Leal. Algoritmo para corregir el efecto de los aerosoles minerales en la estimación de la temperatura superficial del mar desde satélites [An algorithm to correct for the effects of aerosols on the estimation of satellite-derived sea surface temperatures]. In: Rosa Perez, R. and P. Martinez Cobo, Teledetección y desarrollo regional, pp. 53-56. X Congreso Nacional de Teledetección. Caceres, Spain, 17-19 September 2003. ISBN: 84-607-8649-8.

2001

Podestá, G.P., D. Letson, J. Jones, C. Messina, F. Royce, R.A. Ferreyra, M. Grondona, I. Llovet, H. Hordij, M. Marino, E. Guevara, S. Meira, J. Dardanelli, J. Hansen and J.J. O'Brien. Aplicación de información climática relacionada con el fenómeno ENOS en el sector agrícola de la Pampa húmeda argentina. VIII Argentine Meteorology Congress and IX Latin American and Iberic Meteorology Congress. Buenos Aires, Argentina, 7–11 May 2001. [Proceedings available on CD-ROM]

2000

Podestá, G.P., D. Letson, J. Jones, C. Messina, F. Royce, R. A. Ferreyra, I. Llovet, J. Hansen, J.J. O'Brien and D. Legler. Experiences in Application of ENSO-related Climate Information in the Agricultural Sector of Argentina. IRI International Forum on Climate Prediction, Agriculture and Development, Palisades, New York, 26-28 April 2000, pp. 217–221.

Jones, J.W., J.W. Hansen, J.J. O'Brien, G. Podestá, F. Zazueta, and S.S. Jagtap. Agricultural Applications of Climate Predictions: Bridging the Gap between Research and its Application in the SE USA. IRI International Forum on Climate Prediction, Agriculture and Development, Palisades, New York, 26-28 April 2000, pp. 5966.

Podestá, G.P. Tracking El Niño for informed policymaking — An IAI perspective. Asia-Pacific Network for Global Change Research Newsletter 6(1): 4.

1999

Podestá, G.P. First IAI/UM Summer Institute on Interdisciplinary Science in the Americas, "Interactions between seasonal to interannual climate variability and human systems." IAI Newsletter 20: 30–32.

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Podestá, G.P. Water resources: A perspective from South America and Argentina. Indo-US Workshop "Integrating Weather and Climate Information in Water Management", sponsored by the Indo-US Science & Technology Forum. Indian Institute of Tropical Meteorology, Pune, India, 5-7 July 2006. INVITED.

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Podestá, G.P. El fenómeno El Niño-Oscilación del Sur: observaciones desde satélites. Impactos sobre la agricultura, pesquerías y arrecifes de coral. Lecture at "Global Change and Remote Sensing" course. Universidad de Verano de Adeje, Adeje, Canary Islands, Spain, July 26-30, 2004. INVITED.

Podestá, G.P. Utilización de pronósticos climáticos asociados con el fenómeno El Niño- Oscilación del Sur en la toma de decisiones en sectores socio-económicos sensibles a la variabilidad climática. Lecture at "Global Change and Remote Sensing" course. Universidad de Verano de Adeje, Adeje, Canary Islands, Spain, July 26-30, 2004. INVITED.

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Podestá, G.P. Training in integrative sciences: the IAI/UM Summer Institutes. Biocomplexity Land-Water Interface and Climate Change Workshop. Catalina Island, CA, October 3-6, 2003. INVITED.

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Podestá, G.P. Predicción climática en el sector agrícola: un proceso, no un producto [Climate prediction in agriculture: a process, not a product]. VIII Argentine Meteorology Congress and IX Latin American and Iberic Meteorology Congress. Buenos Aires, Argentina, 7–11 May 2001. Invited panel presentation.

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Messina, C.D., J.W. Hansen, A.J. Hall, G.P., Podestá and G.O. Magrin. Climate signals, crop productivity and farm income in the Pampas of Argentina. Nowlin Chair Crop Modeling Symposium, Michigan State University, Detroit, 10–11 November 2000.

Podestá, G.P., Experiences in the application of ENSO-related climate information in the agricultural sector of Argentina. NOAA Climate & Global Change Panel, Fall Meeting, 18–20 September 2000, Leesburg, Virginia.

Podestá, G.P. Assessment of agricultural uses of ENSO-based climate forecasts in Argentina: objectives, framework and methods. Invited talk at meeting on "Aplicación de Pronósticos Climáticos en Agricultura: Métodos, Experiencias y Oportunidades en América Latina". International Potato Center, Lima, Perú, May 16–17, 2000.

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Evans, R.H., K. Kilpatrick, and G. P. Podestá. Compilation of sea surface temperature and ocean color matchup databases from MODIS and Pathfinder AVHRR. SPIE Ocean Optics OOXIV meeting, Nov11–13, 1998, Hawaii.

Hansen, J.W., J.W. Jones, L. Goddard and G.P. Podestá. Disaggregating climate model predictions for crop simulation applications. Submitted to American Society of Agronomy Annual Meeting, 18–22 October 1998, Baltimore, Maryland.

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Campos, E., C. Lentini, D. Olson and G. Podestá. Interannual variability of the sea surface temperature in the South Brazil Bight. AGU 1998 Ocean Sciences Meeting, San Diego, California, February 9–13, 1998.

Fratantoni, P.S., T. Lee, G. Podestá and F. Müller-Karger. The influence of Loop Current variability on the formation and evolution of cyclonic eddies in the southern Straits of Florida. AGU 1998 Ocean Sciences Meeting, San Diego, California, February 9–13, 1998.

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Casey, K. S., P. Cornillon, R. Evans and G. P. Podestá. 1997. Global and regional pathfinder SST fields: Characterization and validation. International Geoscience and Remote Sensing Symposium (IGARSS) 4: 2008-2010.

Vigan, X., C. Provost and G. Podestá. Sea surface velocities in the Brazil Malvinas Confluence area. WOCE Symposium on the South Atlantic. Brest, France. June 1997.

Olson, D.B., M.E. Lutcavage, G. Podestá, G. Samuels and H. De Ferrari. The problem of population assessment in Atlantic bluefin tuna: Results from aerial surveys and methods for ground-truthing estimates. Tuna Conference, Lake Arrowhead, CA.

Podestá, G.P. Applications of climate forecasts: An integral component of a regional virtual center. IAI-NSF Workshop on a Regional Virtual Center for Interannual Climate Variability and ENSO in the MERCOSUR region. April 16–18, 1997, Buenos Aires, Argentina. INVITED.

Podestá, G.P., J. Browder, J. Cramer and D. Olson. Swordfish oceanography in the Atlantic. Second International Pacific Swordfish Symposium. March 3–5, 1997, Turtle Bay, Oahu, Hawaii. INVITED.

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1996

Evans, R.H. and G.P. Podestá. AVHRR Pathfinder SST: Approach and Results. AGU Fall Meeting, December 15–19, 1996. San Francisco, California. EOS Transactions, Volume 77, #46, November 12, 1996 (Supplement), page F-354.

Hansen, J.W., J.W. Jones, G. Magrin, S. Meira, E. Guevara, M.I. Travasso, R. Diaz, M. Marino, H. Hordij, C. Harwell and G.P. Podestá. ENSO effects on yields and economic returns of wheat, corn and soybean in Argentina. 7th Latin American and Iberic Congress of Meteorology. Buenos Aires, Argentina, 2–6 September 1996.

Podestá, G.P. What is a “regional virtual modelling center?” IAI-ISP Workshop on South American Modeling Cooperative for Global Change-Related Oceanic, Coastal and Estuarine Processes. São Paulo, Brazil, 11–15 August 1996.

Olson, D.B., R. Humston, G.P. Podestá, G. Samuels and M.E. Lutcavage. Bluefin tuna distribution and migration relative to oceanic fronts in New England waters. 47th Tuna Conference. Lake Arrowhead, CA, May 20–23, 1996.

1995

Podestá, G.P. and P.W. Glynn. Variabilidad de la temperatura superficial del océano y sus efectos sobre corales en el Golfo de Panamá e Islas Galápagos [Effects of SST variability on reef corals in the Gulf of Panamá and the Galápagos Islands]. Sixth Latin American Congress of Marine Science. Mar del Plata, Argentina. October 23-27, 1995.

Gilbert, P.S., T.N. Lee and G.P. Podestá. Coastal gyres in the Florida Straits and their effects on recruitment. The Oceanography Society. Newport, Rhode Island.

Goñi, G., G.P. Podestá, D.B. Olson, O.B. Brown and S. Garzoli. Dinámica del Océano Atlántico sudoccidental basada en observaciones con altimetría, ecosondas y radiometría. Sixth Latin American Congress of Marine Science. Mar del Plata, Argentina. October 23-27, 1995.

1994

Glynn, P.W. and G.P. Podestá. Coral Bleaching and sea surface temperature. Importance of SST anomalies. NOAA Workshop on Optical Remote Sensing of Coral Reef Degradation. Boston, MA. May 17-19, 1994.

Schmid, C., H. Schäffer, G. Podestá and W. Zenk. The Vitória eddy and its relation to the Brazil Current. The South Atlantic: present and past circulation. Bremen, Germany 15-19 August 1994.

Three invited lectures on fisheries oceanography at the VII Semana Nacional de Oceanografía (7th National Oceanography Week) at the University of Itajaí, Santa Catarina, Brazil, October 4-8, 1994.

Gilbert, P.S., T.N. Lee, G.P. Podestá and P. Ortner. 1994. Mississippi River water in the Florida Straits. EOS Transactions of the American Geophysical Union 75(3): 209.

1993

Podestá, G.P. Satellite data applications in oceanic, atmospheric and terrestrial studies in temperate South America. Inter-American Institute for Global Change Research (IAI). Workshop on Oceanic, Coastal and Estuarine Processes in Temperate Zones, Montevideo, Uruguay, 2-9 August 1993.

Olson, D.B., G.P. Podestá, G. Goni, L.T. Smith, E.P. Chassignet, S. Garzoli, S. Kamholz, R.H. Evans and O.B. Brown. Long Term Variations in the Brazil-Malvinas Confluence. Annales Geophysicae, Part II Oceans, Atmosphere, Hydrology & Nonlinear Geophysics Suppl. 11 to Vol 11, 1993: C164.

Goni, G. J., D.B. Olson, G.P. Podestá, S.E. Kamholz and S.L. Garzoli. Estimates of Kinetic Energy and Potential Vorticity from Inverted Echo Sounders and GEOSAT Altimetry in the Brazil-Malvinas Confluence Area. EOS 74(16), 1993: 171.

Goni, G.J., G.P. Podestá, O. Brown and D. Olson. The use of GEOSAT altimetry to study western boundary currents. Terceras Jornadas Nacionales de Ciencias del Mar, Puerto Madryn, Argentina, September 21-25, 1993.

1992

Podestá, G.P., G.J. Goñi and O.B. Brown, 1992. A comparison of AVHRR and GEOSAT Derived Locations of the Brazil Current Surface Front. EOS 73(4) Supplement, 1992: 128.

Evans, R.H. and G.P. Podestá. The NOAA/NASA Ocean Pathfinder Project - Generation of a Consistent 10-Year Global SST Data Set Using the NOAA/AVHRR Sensors. EOS 73(43) Supplement, 1992: 257 (Invited Abstract).

Huang, H., J.A. Browder, G.P. Podestá and N.B. Thompson, 1991. Application of remote sensing and GIS to sea turtle studies. Sea Turtle Symposium, Jekyll Island, GA, February 25-29, 1992.

Goñi, G.J., J.W. Brown, O.B. Brown and G.P. Podestá. Comparison of GEOSAT sea level height residuals in the SW Atlantic using three orbit correction methods. EOS 73(14) Supplement: 170.

Huang, H., J.A. Browder, G.P. Podestá, N.B. Thompson, L.J. Hansen and A. Martinez. Application of remote sensing and GIS technology to the ecology of sea turtles and marine mammals in the western North Atlantic Ocean. American Society for Photogrammetry and Remote Sensing.

American Congress on Surveying and Mapping and Resource Technology 92 Convention. August 3-8, 1992. Washington, DC.

Huang, H., J. A. Browder, G. P. Podestá, N.B. Thompson, L.J. Hansen and A. Martinez. Distribution of loggerhead turtles and bottlenose dolphins offshore of the Florida Keys. 1992 Symposium on Florida Keys Regional Ecosystem, 16-20 November 1992, Miami, FL.

Framiñan, M.B., O. Brown and G. Podestá, 1992. Variability of the Turbidity Front in the Rio de la Plata Estuary and its Relationship to Oceanographic, Meteorological and Hydrologic Parameters. EOS 73(43) Supplement, 1992: 289.

1991

Podestá, G.P., and J. A. Browder, 1991. Asociaciones Entre la Captura por Unidad de Esfuerzo de Pez Espada y Frentes Térmicos en el Atlántico Noroeste. Jornadas Nacionales de Ciencias del Mar II, Puerto Madryn, Argentina, September 15-21, 1991

Garzoli, S., Z. Garraffo, G. Podestá and O. Brown. Analysis of a General Circulation Model Product: Part 1: The geometry of the GCM in the Brazil/Malvinas and Kuroshio/Oyashio systems. Presented at South Atlantic Ventilation Experiment meeting, Alden Conference Center, New York, July 1991.

Garraffo, Z., S. Garzoli, W. Haxby, G. Podestá, O. Brown and D. Olson. Analysis of a general circulation model product. EOS 71(51), 1991: 42.

1990

Podestá, G.P., O.B. Brown and R.H. Evans. Estimation of annual cycles and low frequency trends in satellite-derived sea surface temperature fields. Oceans from Space. Venice, Italy, May 22-26, 1990.

Podestá, G.P., O.B. Brown, R.H. Evans and A. Mariano. 1990. The annual and super-annual patterns of satellite-derived sea surface temperatures in the southwestern Atlantic Ocean. EOS 71(17), 1990: 542.

1989

Podestá, G.P., O.B. Brown and J.J. Hoey. The association between the distribution and abundance of swordfish (*Xiphias gladius*) and satellite-derived sea surface temperature fields off the northeastern United States. Inaugural meeting of The Oceanography Society. Monterey, CA, August 27-30, 1989.

Podestá, G.P., O.B. Brown, R.H. Evans, H. Figueroa, M.C. Forbes and D.B. Olson. Uso de técnicas de teledetección para el estudio de procesos oceánicos en el Atlántico sudoccidental [Use of remote sensing techniques for the study of oceanic processes in the southwestern Atlantic]. Invited plenary lecture at Jornadas Nacionales de Ciencias del Mar [National Symposium on Marine Science] Puerto Madryn, Argentina, September 17-23, 1989.

1988

Podestá, G.P. and W. Esaias. Satellite-derived phytoplankton pigment concentrations along the shelf break off Argentina, 1979-1980. EOS 69(44), 1988: 1144.

1987

Olson, D.B., R.H. Evans, O.B. Brown, G.P. Podestá and E. Chassignet. Long-period variations in the western boundary current systems in the South Atlantic. EOS 68(16), 1987: 338.

1986

Podestá, G.P. The migration of Argentine hake (*Merluccius hubbsi*) in relation to oceanic processes in the southwestern Atlantic Ocean. Invited presentation at Seminar Workshop on the Oceanography of the southwestern Atlantic. Mar del Plata, Argentina, 31 March-4 April, 1986.

1985

Podestá, G.P. The migration of Argentine hake (*Merluccius hubbsi*) and its relation to shelf and physical processes in the southwestern Atlantic Ocean. EOS 66(51): 1300-1301.

Brown, O.B., R.H. Evans, D.B. Olson and G.P. Podestá. A satellite infrared survey of the Brazil/Malvinas confluence. EOS 66(18): 291.

20. Other works accepted for publication:

Carretero R., F. E. Bert and G. P. Podestá. In Press. Root architecture and water stress tolerance in maize: an approximation from crop models. *Agronomy Journal*.

Ricard M. F., E. Viglizzo and G. P. Podestá. 2014. Comparison of adaptive strategies to climate variability in rural areas of Argentine Chaco and US Southern Plains during the last century. In Press. *Journal of Arid Environments*. DOI: 10.1016/j.jaridenv.2014.10.009.

PROFESSIONAL**21. Funded Research Performed (last five years):**

Funding Agency	Project Title	Dates	Principal Investigator	Funding Amount
Inter-American Development Bank	Hydro-climate Services in La Plata River Basin	Aug 2013 Jul 2014	G. Podestá	\$ 294,443
Columbia University (NSF funds)	Center for Research on Environmental Decisions (CRED)	Sep 2010 to Aug 2015	K. Broad (co-PI: G Podestá)	\$ 913,605
National Science Foundation, Coupled Natural and Human Systems	From farm management to governance of landscapes: climate, water, and land use decisions in the Argentine Pampas.	Sep 2012 August 2015	G. Podestá	\$ 1,425,000
NOAA	Developing the Operational Calibration/Validation Components for VIIRS SST Retrievals	June 2011 to Dec 2013	R. Evans (co-PI: G Podestá)	\$ 646,500

Funding Agency	Project Title	Dates	Principal Investigator	Funding Amount
National Science Foundation, Earth System Models	CR: Type1, Integration of decadal climate predictions, ecological models and human decision-making models to support climate-resilient agriculture in the Argentine Pampas.	May 2011 – April 2014	G. Podestá	\$ 532,155
National Science Foundation, Coupled Natural and Human Systems	CNH: Interactions Between Changing Climate and Technological Innovations in Agricultural Decision Making: Implications for Land Use and Sustainability (Collaborative Research)	Sep 2007 Aug 2010	G. Podestá	\$1,499,539
NASA	EOS-Re-Competition: Ongoing calibration and extension of SST 4 and 11 waveband algorithms for Aqua and Terra Modis using the in Situ Buoy, radiometer	May 2001 Apr 2014	R. Evans (G. Podestá co-PI)	\$ 532,155
National Science Foundation, Biocomplexity in the Environment Initiative	Understanding and Modeling the Scope for Adaptive Management in Agroecosystems in the Pampas in Response to Interannual and Decadal Climate Variability and Other Risk Factors	Sep 2004 Feb 2008	G. Podestá	\$ 1,600,000

22. Editorial responsibilities:

- Member of the Editorial Committee, Comisión Técnica Mixta del Frente Marítimo [a binational organization charged with managing the Argentine-Uruguayan Common Fishery Zone].

23. Professional and Honorary Organizations:

- American Geophysical Union
- The Oceanography Society
- American Meteorological Society

24. Honors and Awards:

- Fellowship to participate in Climate Remote Sensing Workshop, granted by California Space Institute, University of California at San Diego, La Jolla, California, 7/22-8/4/87.
- Elected Member of Cooperative Institute for Marine and Atmospheric Studies (CIMAS), University of Miami and NOAA (October 1995).

25. Post-Doctoral Fellowships:

- U.S. National Research Council Research Associateship at NASA's Goddard Space Flight Center (1/88-1/89).

26. Other Professional Activities:

- Member of the Steering Committee, Jornadas Nacionales de Ciencias del Mar [National Symposium on Marine Science]. Puerto Madryn, Argentina, September 17-23, 1989.
- Consultant to Uruguay's Comisión Nacional Sobre Cambio Global (National Commission on Global Change) on the development of a National Global Change Plan. May-June 1994.
- Science Coordinator of Summer Institute on Interdisciplinary Science in the Americas, a 3-year joint venture between the Univ. of Miami and the Inter American Institute for Global Change Research, sponsored by the National Science Foundation.
- Panel Reviewer for proposals submitted to the Inter-American Institute for Global Change Research, (a) Mexico City, 2002 and (b) São José dos Campos, 2005.
- Member of the International Advisory Committee for the "Advanced Training Institute on Climate Variability and Food Security", Palisades, New York, USA, 8-26 July 2002, organized by the International Research Institute for Climate Prediction.
- "Holistic" reviewer for multiple-discipline proposals submitted to the American Association for the Advancement of Science under the Women in Science Program, September 2002.
- Member of the international External Review Panel tasked with assessing the state of the marine science enterprise in Argentina. Panel funded by Fundación Antorchas, Argentina. March 2003.
- Member of the Technical Advisory Committee for the Caribbean Climate Studies Program, NASA Experimental Program to Stimulate Competitive Research (EPSCoR), Puerto Rico, 2005.
- Co-organizer of "Professional Development Seminar on Modeling Strategies and Decision-Support Tools for the Management of Complex Socio-Ecological Systems", Antigua, Guatemala, 24-28 March 2014 and Panama City, Panama, 18-22 August 2014. Sponsored by International Institute for Global Change Research (IAI).

TEACHING**27. Teaching Awards Received: Not applicable****28. Teaching Specialization (courses taught): Not applicable****29. Thesis and Dissertation Advising/Post-doctoral student supervision:**Graduated:

- Dr. Paula Gilbert-Fratantoni (Univ. of Miami)
- Ing. Agr. Federico Bert (PhD student, School of Agronomy, Univ. of Buenos Aires)
- Mr. William Forsee (MAF/MPO MS candidate)

-
- Ms. Jessica Bolson (Interdisciplinary PhD)

In Progress:

- Ms. Maru Skansi (Atmospheric Science, Univ. of Buenos Aires)

SERVICE

30. University Committee and Administrative Responsibilities:

- University of Miami Research Council, 2005-present
- MPO facilitator for RSMAS Visiting Committee, 1994

31. Community Activities:

- Mentor in MAST Academy Marine and Environmental Internship Summer Program, 1992.
- Lecturer at the Summer High School Science Teacher Institute (RSMAS, 1994 and 1995).
- Spokesperson for RSMAS Remote Sensing Group for multiple groups (visiting dignitaries, trade groups, incoming UM faculty), etc.