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ARTHUR T. DEGAETANO

Biography

Art DeGaetano is Professor in the Department of Earth and Atmospheric Sciences at Cornell. He is also the director of the federally-supported Northeast Regional Climate Center (NRCC) and Associate Chair of Earth and Atmospheric (EAS). The NRCC's mission is to enhance the use and dissemination of climate information to a wide variety of sectors in the Northeast. Art serves as an editor for the American Meteorological Society Journal of Applied Meteorology and Climatology. Art has been at Cornell since 1991 serving as the center's Research Climatologist until 2001. Prior to his arrival at Cornell Art was an Assistant Professor with the Meteorology Department at the South Dakota School of Mines and Technology in Rapid City. He received an interdisciplinary Ph.D. focusing on Climatology and Horticulture from Rutgers University in 1989.



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Research Interests

My research focus can best be described as applied climatology. This involves the development of methods and data sets that provide climatological information to decision-makers in a variety of fields. Four more specific research areas make up this general focus, modeling climate influences on man-made and biological systems, documenting observed variations in the climate system, improving climate data quality and assessing climate impacts. Increasing, my research has focused on the impacts and adaptations to climate change

Teaching Interests

My teaching focuses on two main aspects. Foremost is my contribution

to a nationally recognized undergraduate program in Atmospheric Science. In addition, I teach an increasingly popular general interest science course on Global Warming, EAS 268. I also teach two required AS courses, EAS 341, Atmospheric Thermodynamics and Hydrostatics, and EAS 447, Physical Meteorology.

Service Interests

My outreach focus is through the Northeast Regional Climate Center (NRCC). The NRCC is one of six federal centers that disseminates climate data, data products and decision tools to regional stakeholders. The NRCC is on the forefront of developing online data dissemination systems that are in use nationally.

Selected Publications

- ▶ Belcher, B.N. and A. T. DeGaetano, 2007: A revised model to estimate solar radiation using automated surface weather stations, *Solar Energy*, 81(3), 329-345.
- ▶ A.T. DeGaetano and B.N. Belcher, 2006: Spatial Interpolation of Daily Maximum and Minimum Air Temperature Based on Meteorological Model Analyses and Independent Observations, *J. Applied Meteorology and Climatology*, [In Press].
- ▶ S. M Jessup and A.T. DeGaetano, 2006: A statistical comparison of the properties of flash flooding and non-flooding precipitation events in portions of New York and Pennsylvania Weather and Forecasting, [In Press].
- ▶ DeGaetano, A.T. 2006: Attributes of Several Methods for Detecting Discontinuities in Temperature Series: Prospects for a Hybrid Homogenization Procedure, *J. Climate* 19, 838-853. Hayhoe, K, C. Wake, T. G. Huntington, L. Luo, M. D. Schwartz, J. Sheffield, E. Wood, B. Anderson, J. Bradbury, A. DeGaetano, T. J. Troy, and D. Wolfe, 2006: Past and Future Changes in Climate and Hydrological Indicators in the U.S. Northeast, *Climate Dynamics*, 28, 381-407.
- ▶ Gong, H.F., C.J.M.Koenraadt, A.T. DeGaetano, L.C. Harrington, 2006: Modeling local scale parameters for development and population density of West Nile vectors. *Proceedings Entomological Society of America, Annual Meeting, Indianapolis, IN* Melkonian, J, H. van Es, A. DeGaetano, J. Sogbedji, and L. Joseph, 2006: Application of Dynamic Simulation Modeling for Nitrogen Management in Maize, *Proceedings Soil Science Society of America*.

Websites

- ▶ [National Climatic Data Center](#)
- ▶ [National Weather Service Forecast Office](#)
- ▶ [Northeast Regional Climate Center](#)
- ▶ [The Applied Climate Information System](#)

Education

- ▶ B Sc. Rutgers State University. 1984

▶ M Sc. Rutgers State University. 1986

▶ Ph D. Rutgers State University. 1989

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