

**GERRIT HOOGENBOOM**  
**Professor**

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**AREA OF SPECIALTY**

Impact of climate change and variability of agricultural production and water resource use  
Computer modeling and simulation of agricultural systems  
Decision Support Systems and Geographic Information Systems  
Information Technology  
Agrometeorology and climatology  
Automated weather station management  
Monitoring of weather and environmental variables

**EDUCATION**

Auburn University, Alabama, USA: September 1981 to August 1985  
Degree: Doctor of Philosophy - Agronomy and Soils (Crop Science)  
Agricultural University, Wageningen, the Netherlands: 1978 to 1981  
Degree: Master of Science - Horticulture; Theoretical Production Ecology  
Agricultural University, Wageningen, the Netherlands: 1974 to 1977  
Degree: Bachelor of Science - Horticulture; Plant Physiology

**EMPLOYMENT**

**Coordinator of Research, Extension and Instruction:** Dept. of Biological and Agricultural Engineering, the University of Georgia, Griffin, Georgia. February, 2006 - Present

**Professor in Agrometeorology & Crop Modeling:** Department of Biological and Agricultural Engineering, The University of Georgia, Georgia. July 2000 - Present.

**Member** of the Graduate Faculty at the University of Georgia. May, 1990 - Present.

**Coordinator** of the Georgia Automated Environmental Monitoring Network 1991-Present.

**Assistant/Associate Professor in Agrometeorology & Crop Modeling:** Department of Biological and Agricultural Engineering, The University of Georgia. 1989 - 2000.

**Postdoctoral Research Associate:** Department of Agricultural Engineering (in cooperation with Department of Agronomy), University of Florida. 1985 - 1989.

**Graduate Research Assistant:** Dept. of Agronomy and Soils, Auburn University, 1981 - 1985.

**Visiting Research Scientist:** Volcani Center, Bet Dagan, Israel. 1979.

**SERVICE and AWARDS**

2009 – Present. Editor, *Journal of Agricultural Science*.

2008 – Present. Editor, *Climate Research*

2005 - Present. Editorial Board, *Brazilian Journal of Agrometeorology*.

2003 - Present. Editorial Board and Book Review Editor, *Agricultural Systems*

1996 - 2002. Editorial Board and Associate Editor, *Agronomy Journal*  
2001 - Present. Vice-Chair, Scientific and Educational Advisory Board, Centre Regional  
AGRHYMET, Permanent Interstate Committee for Drought Control in the Sahel.  
2002 - 2003. Chair, Division of Agroclimatology and Modeling, American Society of  
Agronomy.  
D.W. Brooks Faculty Award for Excellence in International Agriculture. **The University of  
Georgia**, 2002.  
Neville Clark Award for Outstanding Teamwork. **International Livestock Research Institute**,  
Nairobi, Kenya, 2003.

### Recent Relevant Publications

- Tsuji, G. Y., G. Hoogenboom, and P. K. Thornton [Editors]. 1998. *Understanding Options for  
Agricultural Production*. Systems Approaches for Sustainable Agricultural Development.  
Kluwer Academic Publishers, Dordrecht, the Netherlands. ISBN 07923-4833-8. 400 pp.
- Hoogenboom, G. 1993. The Georgia Automated Environmental Monitoring Network.  
*Southeastern Climate Review* 4(1):12-18.
- Lal, H., G. Hoogenboom, J.-P. Calixte, J. W. Jones, and F. H. Beinroth. 1993. Using crop  
simulation models and GIS for regional productivity analysis. *Transactions of the ASAE*  
36(1):175-184.
- Elizondo, D. A., G. Hoogenboom, and R. W. McClendon. 1994. Development of a neural  
network model to predict daily solar radiation. *Agricultural and Forest Meteorology*  
71(1-2):115-132.
- Roberts, J. J., G. Hoogenboom, and P. B. Ford. 1994. Utilization of research findings and  
databases for serendipitous technology transfer. *Computers and Electronics in  
Agriculture* 10(1):75-82.
- McClendon, R. W., G. Hoogenboom, and I. Seginer. 1996. Optimal control and neural networks  
applied to peanut irrigation management. *Transactions of the ASAE* 39(1):275-279.
- Engel, T., G. Hoogenboom, J. W. Jones, and P. W. Wilkens. 1997. AEGIS/WIN - A computer  
program for the application of crop simulation models across geographic areas.  
*Agronomy Journal* 89(6):919-928.
- Georgiev, G.A., and G. Hoogenboom. 1999. Near real-time agricultural simulations on the web.  
*Simulation* 73(1):22-28.
- Hartkamp, A.D., J.W. White, and G. Hoogenboom. 1999. Interfacing geographic information  
systems with agronomic modeling: A review. *Agronomy Journal* 91(5):762-772.
- Alexandrov, V.A., and G. Hoogenboom. 2000. Vulnerability and adaptation assessments of  
agricultural crops under climate change in the Southeastern USA. *Theoretical and  
Applied Climatology* 67:45-63.
- Bruton, J.M., G. Hoogenboom, and R. W. McClendon. 2000. A comparison of automatically and  
manually collected pan evaporation data. *Transactions of the ASAE* 43(5):1097-1101.
- Bruton, J.M., R. W. McClendon, and G. Hoogenboom. 2000. Estimating pan evaporation with  
artificial neural networks. *Transactions of the ASAE* 43(2):491-496.
- Heinemann, A.B., G. Hoogenboom, G.A. Georgiev, R.T. de Faria and J.A. Frizzzone. 2000.  
Center pivot irrigation management optimization of dry beans in humid areas.  
*Transactions of the ASAE*. 43(6):1507-1516.
- Hoogenboom, G. 2000. Contribution of agrometeorology to the simulation of crop production  
and its applications. *Agricultural and Forest Meteorology* 103(1-2):137-157.

- Alexandrov, V.A., and G. Hoogenboom. 2001. Climate variation and crop production in Georgia, USA, during the 20<sup>th</sup> century. *Climate Research* 17(1):33-43.
- Heinemann, A.B., G. Hoogenboom, and R.T. de Faria. 2002. Determination of spatial water requirements at county and regional levels using crop models and GIS: An example for the State of Parana. *Agricultural Water Management* 52(3):177-196.
- Irmak, S., A. Irmak, J.W. Jones, T.A. Howell, J.M. Jacobs, R.G. Allen, and G. Hoogenboom. 2003. Predicting daily net radiation using minimum climatological data. *Journal of Irrigation and Drainage Engineering* 129(4):256-269.
- Ashish, D., G. Hoogenboom, and R.W. McClendon. 2004. Land-use classification of gray-scale aerial images using probabilistic neural networks. *Transactions of the ASAE*. 47(5):1813-1819.
- Boken, V.K., G. Hoogenboom, J.E. Hook, D.L. Thomas, L.C. Guerra, and K.A. Harrison. 2004. Agricultural water use estimation using geospatial modeling and a geographic information system. *Agricultural Water Management* 67(3):185-199.
- Boken, V.K., G. Hoogenboom, F.N. Kogan, J.E. Hook, D.L. Thomas, and K.A. Harrison. 2004. Potential of using NOAA-AVHRR data for estimating irrigated area to help solve an inter-state water dispute. *International Journal of Remote Sensing* 24(2):2277-2286.
- Guerra, L.C., G. Hoogenboom, V.K. Boken, J.E. Hook, D.L. Thomas, and K.A. Harrison. 2004. Evaluation of the model EPIC for simulating crop yield and irrigation demand. *Transactions of the ASAE* 42(6):2091-2100.
- Li, B., R.W. McClendon and G. Hoogenboom. 2004. Spatial interpolation of weather variables for single locations using artificial neural networks. *Transactions of the ASAE* 42(2):629-637.
- Garcia y Garcia, A., and G. Hoogenboom. 2005. Evaluation of an improved daily solar radiation generator for the southeastern USA. *Climate Research* 29:91-102.
- Guerra, L.C., G. Hoogenboom, J.E. Hook, D.L. Thomas, V.K. Boken, and K.A. Harrison. 2005. Evaluation of the model EPIC for simulating on-farm irrigation applications. *Irrigation Science* 23:171-181.
- Mullen, J.D., C. Escalante, G. Hoogenboom, and Y. Yu. 2005. Determinants of irrigation farmers' crop choice and acreage allocation decisions: Opportunities for extension delivery service. *Journal of Extension* [on-line] 43(5). Available at <http://www.joe.org/joe/2005october/rb3.shtml>.
- Nelson, B.R., W.F. Krajewski, J.A. Smith, E. Habib, and G. Hoogenboom. 2005. Archival precipitation data set for the Mississippi river basin: evaluation. *Geophysical Research Letters* 32: L19403,doi:10.1029/2005GL023334. Abrahamson, D.A., D.E. Radcliffe, J.L. Steiner, M.L. Cabrera, D.M. Endale, and G. Hoogenboom. 2006. Evaluation of the RZWQM for simulating tile drainage and leached nitrate in the Georgia Piedmont. *Agronomy Journal* 98(3):644-654.
- Banternng, P., A. Patanothai, K. Pannangpetch, S. Jogloy, and G. Hoogenboom. 2006. Yield stability evaluation of peanut lines: a comparison of an experimental versus a simulation approach. *Field Crops Research* 96(1):168-175.
- Dangthaisong, P., P. Banternng, S. Jogloy, N. Vorasoot, A. Patanothai, and G. Hoogenboom. 2006. Evaluation of the CSM-CROPGRO-Peanut model in simulating responses of two peanut cultivars to different moisture regimes. *Asian Journal of Plant Sciences* 5(6):913-922.

- Fraisse, C.W., N.E. Breuer, D.Zierden, J.G. Bellow, J. Paz, V.E. Cabrera, A. Garcia y Garcia, K.T. Ingram, U. Hatch, G. Hoogenboom, J.W. Jones, and J.J. O'Brien. 2006. AgClimate: A climate forecast information system for agricultural risk management in the southeastern USA. *Computers and Electronics in Agriculture* 53(1):13-27.
- Garcia y Garcia, A., G. Hoogenboom, L.C. Guerra, J.O. Paz, and C.W. Fraisse. 2006. Analysis of the interannual variation of peanut yield in Georgia using a dynamic crop simulation model. *Transactions of the American Society of Agricultural and Biological Engineers* 49(6):2005-2015.
- Greenwald, R., M.H. Bergin, J. Xu, D. Cohan, G. Hoogenboom, and W.L. Chameides. 2006. The influence of aerosols on crop production: A study using the CERES model. *Agricultural Systems* 89(2-3):390-413.
- Heinemann, A.B., A.de H.N. Maia, D. Dourado\_Neto, K.T. Ingram, and G. Hoogenboom. 2006. Soybean (*Glycine Max* [L.] Merr.) growth and development response to CO<sub>2</sub> enrichment under different temperature regimes. *European Journal of Agronomy* 24(1):52-61.
- Jain, A., R.W. McClendon, and G. Hoogenboom. 2006. Freeze prediction for specific locations using artificial neural networks. *Transactions of the American Society of Agricultural and Biological Engineers* 49(6):1955-1962.
- Ma, L., G. Hoogenboom, L. R. Ahuja, J.C. Ascough, and S.A. Saseendran. 2006. Development and evaluation of the RZWQM-CERES-Maize hybrid model for maize production. *Agricultural Systems* 87(3):274-295.
- Smith, B.A., R.W. McClendon, and G. Hoogenboom. 2006. Improving air temperature prediction with artificial neural networks. *International Journal of Computational Intelligence* 3(3):179-186.
- Zavareh, M., H.R. Mashhadi, G. Hoogenboom, R.T. Afshari, M.N. Mahallati, and F. Sharifzadeh. 2006. Dry matter partitioning to sesame (*Sesamum indicum* L.) roots in response to temperature and elevated CO<sub>2</sub>. *Iranian Journal of Agricultural Sciences* 37(1):16.
- Bannayan, M., K. Kobayashi, H. Marashi, and G. Hoogenboom. 2007. Gene-based modeling for rice: An opportunity to enhance the simulation of rice growth and development? *Journal of Theoretical Biology* 249:593-605.
- Boken, V.K., C. E. Haque, and G. Hoogenboom. 2007. Predicting drought using pattern recognition, *Annals of the Arid Zone* 46(2):133-144.
- Bostick, W.M., V.B. Bado, A. Bationo, C.M.T. Soler, G. Hoogenboom, and J.W. Jones. 2007. Soil carbon dynamics and crop residue yields of cropping systems in the Northern Guinea Savannah of Burkina Faso. *Soil and Tillage Research* 93(1):138-151.
- Gijsman, A.J., P.K. Thornton, and G. Hoogenboom. 2007. Using the WISE database to parameterize soil inputs for crop simulation models. *Computers and Electronics in Agriculture* 56:85-100.
- Guerra, L.C., A. Garcia y Garcia, J.E. Hook, K.A. Harrison, D.L. Thomas, D.E. Stooksbury, and G. Hoogenboom. 2007. Irrigation water use estimates based on crop simulation models and kriging. *Agricultural Water Management* 89(3):199-207.
- Herrero, M., E. Gonzalez-Estrada, P.K. Thornton, C. Quiros, M.M. Waithaka, R. Ruiz, and G. Hoogenboom. 2007. IMPACT- Generic household-level databases and diagnostic tools for integrated crop-livestock analysis. *Agricultural Systems* 92 (1-3):240-265.
- Lizaso, J.I. , K.J. Boote, C.M. Cherr, J.M.S. Scholberg, J.J. Casanova, J. Judge, J.W. Jones, and G. Hoogenboom. 2007. Developing a sweet corn simulation model to predict fresh

- market yield and quality of ears. *American Journal of Horticultural Science* 132(2):415-422.
- Paz, J.O., C.W. Fraisse, L.U. Hatch, A. Garcia y Garcia, L.C. Guerra, O. Uryasev, J.G. Bellow, J.W. Jones, and G. Hoogenboom. 2007. Development of an ENSO-based irrigation decision support tool for peanut production in the southeastern US. *Computers and Electronics in Agriculture* 55(1):28-35.
- Pathak, T.B., C.W. Fraisse, J.W. Jones, C.D. Messina, and G. Hoogenboom. 2007. Use of global sensitivity analysis for CROPGRO cotton model development. *Transactions of the American Society of Agricultural Engineers* 50(6):2295-2302.
- Saseendran, S.A., L. Ma, R. Malone, P. Heilman, L. R. Ahuja, R. S. Kanwar, D. L. Karlen, and G. Hoogenboom. 2007. Simulating management effects on crop production, tile drainage, and water quality using RZWQM-DSSAT. *Geoderma* 140:297-309.
- Soler, C.M.T., G. Hoogenboom, P.C. Sentelhas, and A.P. Duarte. 2007. Growth analysis of maize grown off-season in a subtropical environment under rainfed and irrigated conditions. *Journal of Agronomy and Crop Science* 193(4):247-261.
- Soler, C.M.T., P.C. Sentelhas, and G. Hoogenboom. 2007 Application of the CSM-CERES-Maize model for planting date evaluation and yield forecasting for maize grown off-season in a subtropical environment. *European Journal of Agronomy* 27(2-4):165-177.
- Soltani, A., and G. Hoogenboom. 2007. Assessing crop management options with crop simulation models based on generated weather data. *Field Crops Research* 103:198-207
- Suleiman, A.A., and G. Hoogenboom. 2007. Comparison of Priestley-Taylor and Penman-Monteith for daily reference evapotranspiration estimation in Georgia. *Journal of Irrigation and Drainage Engineering* 133(2):175-182.
- Suleiman, A.A., C.M.T. Soler, and G. Hoogenboom. 2007. Evaluation of FAO-56 crop coefficient procedures for deficit irrigation management of cotton in a humid climate. *Agricultural Water Management* 91(1-3):33-42.
- Suriharn, B., A. Patanothai, K. Pannangpetch, S. Jogloy, and G. Hoogenboom. 2007. Determination of cultivar coefficients of peanut lines for breeding applications of the CSM-CROPGRO-Peanut model. *Crop Science* 47(2):607-619.
- White, J.W., K.J. Boote, G. Hoogenboom, and P.G. Jones. 2007. Regression-based evaluation of ecophysiological models. *Agronomy Journal* 99(2):419-427.
- Anothai, J., A. Patanothai, K. Pannangpetch, S. Jogloy, K.J. Boote, and G. Hoogenboom. 2008. Reduction in data collection for determination of cultivar coefficients for breeding applications. *Agricultural Systems* 96(1-3):195-206.
- Anothai, J., A. Patanothai, S. Jogloy, K. Pannangpetch, K.J. Boote, and G. Hoogenboom. 2008. A sequential approach for determining the cultivar coefficients of peanut lines using end-of-season data of crop performance trials. *Field Crops Research* 108:169-178.
- Bannayan, M., and G. Hoogenboom. 2008. Predicting realizations of daily weather data for climate forecasts using the non-parametric nearest-neighbor re-sampling technique. *International Journal of Climatology* 28(10):1357-1368.
- Bannayan, M., and G. Hoogenboom. 2008. Weather Analogue: A tool for lead time prediction of daily weather data realizations based on a modified k-Nearest Neighbor approach. *Environmental Modeling* 23(6):703-713.
- Ben-Asher, J., A. Garcia y Garcia, and G. Hoogenboom. 2008. Effect of high temperature on photosynthesis and transpiration of sweet corn (*Zea mays* L. var. *rugosa*). *Photosynthetica*.46(4):595-603.

- Boken, V.K., G. Hoogenboom, J.H. Williams, B. Diarra, S. Dione, and G.L. Easson. 2008. Monitoring peanut contamination in Mali (Africa) using AVHRR satellite data and a crop simulation model. *International Journal of Remote Sensing* 29(1):117-129.
- Deng, X., B.J. Barnett, G. Hoogenboom, Y. Yu, and A. Garcia y Garcia. 2008. Alternative crop insurance indices. *Journal of Agricultural and Applied Economics* 40(1): 223-237.
- Fang, H., S. Liang, G. Hoogenboom, J. Teasdale and M. Cavigelli. 2008. Corn yield estimation of remotely sensed data into the CSM-CERES-Maize model. *International Journal of Remote Sensing* 29(10):3011-3032.
- Garcia y Garcia. A., L.C. Guerra, and G. Hoogenboom. 2008. Impact of generated solar radiation on simulated crop growth and yield. *Ecological Modeling* 210(3):312-326.
- Guerra, L.C., G. Hoogenboom, A. Garcia y Garcia, P. Banterng, and J.P. Beasley, Jr. 2008. Determination of cultivar coefficients for the CSM-CROPGRO-Peanut model using variety trial data. *Transactions of the American Society of Agricultural and Biological Engineers* 51(4):1471-1481.
- Lin, S., J.D. Mullen, and G. Hoogenboom. 2008. Farm-level risk management using irrigation and weather derivatives. *Journal of Agricultural and Applied Economics* 40(2):485-492.
- Olatinwo R.O., J.O. Paz, S.L. Brown, R.C. Kemerait, A.K. Culbreath, J.P. Beasley, Jr., and G. Hoogenboom. 2008. A predictive model for spotted wilt epidemics in peanut based on local weather conditions and the tomato spotted wilt virus risk index. *Phytopathology* 98(10):1066-1074.
- Phakamas, N., A. Patanothai, K. Pannangpetch, S. Jogloy and G. Hoogenboom. 2008. Dynamic patterns of components of genotype x environment interaction for pod yield of peanut over multiple years: a simulation approach. *Field Crops Research* 106(1):9-21.
- Phakamas, N., A. Patanothai, K. Pannangpetch, S. Jogloy and G. Hoogenboom. 2008. Seasonal responses and genotype-by-season interactions for the dynamic growth and development traits of peanut. *Journal of Agricultural Science* 146:311-323.
- Phakamas, N., A. Patanothai, S. Jogloy, K. Pannangpetch, and G. Hoogenboom. 2008. Physiological determinants for pod yield of peanut lines. *Crop Science* 48(6):2351-2360.
- Prabhakaran, T.V., and G. Hoogenboom. 2008. Evaluation of the weather research and forecasting model for two frost events. *Computers and Electronics in Agriculture* 64:234-247.
- Putto, W., A. Patanothai, S. Jogloy, and G. Hoogenboom. 2008. Determination of mega-environments for peanut breeding using the CSM-CROPGRO-Peanut model. *Crop Science* 48(3):973-982.
- Shank, D.B., G. Hoogenboom, and R.W. McClendon. 2008. Dew point temperature prediction using artificial neural networks. *Journal of Applied Meteorology and Climatology* 47(6):1757-1769.
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- Soler, C.M.T., N. Maman, X. Zhang, S.C. Mason and G. Hoogenboom. 2008. Determining optimum planting dates for pearl millet for two contrasting environments using a modeling approach. *Journal of Agricultural Science* 146(4):445-459.
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- White, J.W., G. Hoogenboom, P.W. Stackhouse and, J. M. Hoell. 2008. Evaluation of NASA satellite- and assimilation model-derived long-term daily temperature data over the continental US. *Agricultural and Forest Meteorology* 148(10):1574-1584.
- Zavareh, M., G. Hoogenboom, H.R. Mashhadi, and A. Arab. 2008. A decimal code to describe the growth stages of sesame (*Sesamum orientale* L.). *International Journal of Plant Production* 2(3):193-206.
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- Bannayan, M., C.M.T. Soler, A. Garcia y Garcia, L.C. Guerra, and G. Hoogenboom. 2009. Interactive effects of elevated [CO<sub>2</sub>] and temperature on growth and development of a short- and long-season peanut cultivar. *Climatic Change* 93(3-4):389-406.
- Garcia y Garcia, A., L.A. Guerra, and G. Hoogenboom. 2009. Impact of planting date and hybrid on early growth of sweet corn. *Agronomy Journal* 101(1):193-200.
- Gheysari, M., S.M. Mirlatifi, M. Bannayan, M. Homae, and G. Hoogenboom. 2009. Interaction of water and nitrogen on maize grown for silage. *Agricultural Water Management* 96(5):809-821.
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- Roncoli, C., C. Jost, P. Kirshen, M. Sanon, K.T. Ingram, M. Woodin, L. Somé, F. Ouattara, B. J. Sanfo, C. Sia, P. Yaka, and G. Hoogenboom. 2009. From accessing to assessing forecasts: an end-to-end study of participatory climate forecast dissemination in Burkina Faso (West Africa). *Climatic Change* 92(3-4):433-460.
- Ahmad, S., A. Ahmad, M. Zia-ul-Haq, H. Ali, T. Khaliq, and G. Hoogenboom. 2009. Resources use efficiency of field grown transplanted rice (*Oryza sativa* L.) under irrigated semiarid environment. *Journal of Food, Agriculture and Environment* 7(2). (In Press).
- Bannayan, M., and G. Hoogenboom. 2009. Using pattern recognition for estimating cultivar coefficients of a crop simulation model. *Field Crops Research*. (In Press).
- Gheysari, M., S.M. Mirlatifi, M. Homae, M.E. Asadi, and Gerrit Hoogenboom. 2009. Nitrate leaching in a silage maize field under different irrigation and nitrogen fertilizer rates. *Agricultural Water Management*. (In Press).
- Ma, L., G. Hoogenboom, S.A. Saseendran, P.N.S. Bartling, L.R. Ahuja, and T.R. Green. 2009. Estimates of soil hydraulic properties and root growth factors on soil water balance and crop production. *Agronomy Journal* 101(3). (In Press).
- Panda, S.S., G. Hoogenboom, and J.O. Paz. 2009. Distinguishing blueberry bushes from mixed vegetation land use using high resolution satellite imagery and geospatial techniques. *Computers and Electronics in Agriculture*. (In Press).
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- Prabhakaran, T.V., and G. Hoogenboom. 2009. Observed dimming effect during a forest fire in the southeastern United States and the role of aerosols. *Geophysical Research Letters*. (In Press).
- Rader, M., P. Kirshen, C. Roncoli, G. Hoogenboom, and F. Ouattara. 2009. An agricultural risk decision support system for subsistence farmers in Burkina Faso, West Africa. *Journal of Water Resources Planning and Management*. (In Press).
- Soler, C.M.T., P. Sentelhas, and G. Hoogenboom. 2009. The impact of climate variability on off-season maize yield for a subtropical region. *International Journal of Climatology*. (In Press).
- Fang, Q., L. Ma, Q. Yu, J. Wang, Y. Chen, L.R. Ahuja, R.W. Malone, and G. Hoogenboom. 2009. Irrigation strategies to improve the water use efficiency of wheat-maize double cropping systems in China. *Agricultural Water Management*. (Accepted for publication).
- Garcia y Garcia, A., L.C. Guerra, and G. Hoogenboom. 2009. Water use and water use efficiency of sweet corn under different weather conditions and soil moisture regimes. *Agricultural Water Management*. (Accepted for publication).
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- Saseendran, S.A., D.C. Nielsen, D.J. Lyon, L. Ma, D.G. Felter, D.D. Baltensperger, G. Hoogenboom, and L.R. Ahuja. 2009. Modeling responses of dryland spring triticale, proso millet and foxtail millet to initial soil water in the High Plains. *Field Crops Research*. (Accepted for publication).
- Smith, B.A., G. Hoogenboom, and R.W. McClendon. 2009. Artificial neural networks for automated year-round temperature prediction. *Computers and Electronics in Agriculture*. (Accepted for publication).