

Henrique Momm

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(underlined author indicates collaboration with student)

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- [50] **Momm, H.G.**, R.L. Bingner, L.L.T. Burbano and S.M. Dabney, (2017). [An enhanced field-scale conservation management planning approach for watershed-scale erosion assessments](#). Presentation at the Soil and Water Conservation Society 72nd International Meeting, Madison, WI, USA, July 30 to August 2.

- [49] Bingner, R.L., **H.G. Momm**, Y. Yuan, R.R. Wells, J. D. Garbrecht, (2017). [Enhanced topographic analysis tools for watershed assessment of integrated conservation management practices](#). Presentation at the Soil and Water Conservation Society 72nd International Meeting, Madison, WI, USA, July 30 to August 2.
- [48] Porter, W. and **H.G. Momm**, (2017). [Generating historical crop data layers using spectral feature fitting algorithm](#). Poster presentation at the National Council of Space Grant Directors' Spring Meeting, Arlington, VA, U.S.A., March 2.
- [47] Yasarer, L., R.L. Bingner, M. Locke, R. Lizotte, and **H.G. Momm**, (2016). [Evaluation of Conservation Practice Impacts on the USDA-ARS CEAP Beasley Lake Watershed, Mississippi using AnnAGNPS](#). Presentation in the 2016 Annual Conference of the Soil and Water Conservation Society meeting scheduled to happen in Louisville, KY, U.S.A, July 24-27.
- [46] **Momm, H.G.**, R.R. Wells, and S.J. Bennett (2016). [Disaggregation of Soil Erosion Processes](#). 7th International Symposium on Gully Erosion, West Lafayette, IN, U.S.A., May 23-27.
- [45] Bingner, R.L., R.R. Wells, **H.G. Momm**, and F.D. Theurer, (2016). [Development of watershed ephemeral gully erosion technology within AnnAGNPS to assess the impacts from agricultural management decisions](#). 7th International Symposium on Gully Erosion, West Lafayette, IN, U.S.A., May 23-27.
- [44] Yasarer, M.W., R.L. Bingner, J.D. Garbrecht, M.A. Locke, R.E. Lizotte, **H.G. Momm**, P.R. Busted, (2016). [Assessment of Climate Change Impacts on Water Quality Loads in the Beasley Lake Watershed, MS](#). 10th International Symposium on Agriculture and the Environment, West Lafayette, IN, U.S.A., May 23-27.
- [43] Dabney, S.M., D.A.N. Vieira, R.R. Wells, R.M. Cruse, K.R. Gesch, **H.G. Momm**, D.C. Yoder, and M.J. Helmers, (2016). [Estimating ephemeral gully erosion in no-till cropped fields](#). 7th International Symposium on Gully Erosion, West Lafayette, IN, U.S.A., May 23-27.
- [42] **Momm, H.G.**, R.L. Bingner, and R.R. Wells, (2016). [Watershed-scale simulation and visualization technology of ephemeral gully emergence and evolution](#). 7th International Symposium on Gully Erosion, West Lafayette, IN, U.S.A., May 23-27.
- [41] Trujillo, L.L.B. and **H.G. Momm**, (2016). [Simulating Multispectral Imagery using Spectral Band Synthesis Technique and Hyperspectral Datasets](#). Presentation in the 2016 Annual Conference of the American Society of Photogrammetry and Remote Sensing – Imaging and Geospatial Technology Forum in Dallas, TX, U.S.A., April 11-15.
- [40] **Momm, H.G.** and E. Snapp, (2016). [Classification of High-Dimensional Rasterized LiDAR Datasets Using Evolutionary Computation](#). Presentation in the 2016 Annual Conference of the American Society of Photogrammetry and Remote Sensing – Imaging and Geospatial Technology Forum in Dallas, TX, U.S.A., April 11-15.
- [39] Trujillo, L.L.B. and **H.G. Momm**, (2016). [Simulating multispectral imagery using air-borne hyperspectral sensor imager](#). Poster presentation at the 125th Meeting of the Tennessee Academy of Sciences, Murfreesboro, TN, November 20.
- [38] Snapp, E. and **H.G. Momm**, (2016). [Quantifying the influence of population diversity to the converging ability of evolutionary algorithms: study case of image classification](#). Poster presentation at the 125th Meeting of the Tennessee Academy of Sciences, Murfreesboro, TN, November 20.
- [37] Bingner, R.L., **H.G. Momm**, Y. Yuan. J.A. Kostel, J.J. Monchak, M.A. Locke, and A. Gilley, (2015). [Development of Wetland Components within the AnnAGNPS Watershed Model for Nutrient Management](#). Poster presentation in the Nutrient Management and Edge of Field Monitoring Special Conference, Memphis, Tennessee, U.S.A., December 1-3.

- [36] **Momm, H.G.**, R.L. Bingner, S.M. Dabney, R.R. Wells and E. Snap, (2015). [Integrated field \(RUSLE2\) and watershed \(AnnAGNPS\) Conservation Practice Management Planning Technology](#). Poster presentation in the Nutrient Management and Edge of Field Monitoring Special Conference, Memphis, Tennessee, U.S.A., December 1-3.
- [35] Bingner, L.R., **H.G. Momm**, R.R. Wells, and R.A. Kuhnle, (2015). [Use of AnnAGNPS and Remotely-Sensed Data in Watershed Conservation Management Planning](#). 10th Federal Interagency Sedimentation Conference, Reno, Nevada, U.S.A, April 19-23.
- [34] **Momm, H.G.**, R.L. Bingner, L. Kraemer, and R.R. Wells, (2015). [Integrating GIS With AnAGNPS Watershed Model for Optimal Placement of Conservation Practices in Agricultural Watersheds](#). 10th Federal Interagency Sedimentation Conference, Reno, Nevada, U.S.A, April 19-23.
- [33] **Momm, H.G.**, A. Giley, and R.L. Bingner, (2015). [Evaluating the Impact of Wetlands on Targeting and Integrating Conservation Practices in Watershed Systems](#). 2015 Tennessee Water Resources Symposium, Burns, Tennessee, U.S.A., April 1-3.
- [32] Wells, R.R., **H.G. Momm**, S.J. Bennett, and S.M. Dabney, (2015). [Gully measurement strategies in a pixel using Python](#). European Geosciences Union - General Assembly, Vienna, Austria, April 12-17.
- [31] Gesch, K.R., R.R. Wells, **H.G. Momm**, S.M. Dabney, and R.M. Cruse, (2014). [Application of Close Range Photogrammetry to Generate Physical Data of Ephemeral Gully Development](#). SSSA International Annual Meetings, Long Beach, California, U.S.A., November 2-5.
- [30] **Momm, H.G.**, R.R. Wells, and A. McCloud, (2014). [Using spatial-autocorrelation to quantify drainage network spatial persistence](#). Abstract and presentation in the AutoCarto Conference, Pittsburgh, Pennsylvania, U.S.A., October 6-8.
- [29] **Momm, H.G.**, (2014). [Automating ArcGIS Geoprocessing Tasks using Python Scripts: An Overview](#). The 13th Middle Regional TNGIC Forum on Geographic Information Systems. Murfreesboro, Tennessee, U.S.A., November 19-20.
- [28] Momm H.G., I. Murray, S.W. Williams, and Z. Law, (2014). [Applied GIS methodology for LiDAR point cloud classification](#). Abstract and presentation in the AutoCarto Conference, Pittsburgh, Pennsylvania, U.S.A., October 6-8.
- [27] Bingner, R.L., J.A. Kostel, J.J. Monchak, Y. Yuan, and **H.G. Momm**, (2014). [Evaluating Wetland Impacts on Nutrient Loads within Watershed Systems Using AnnAGNPS](#). 69th SWCS International Annual Conference, Lombard, Illinois, U.S.A., July 27-30.
- [26] Bingner, R.L., A. Sadeghi, **H.G. Momm**, C. Graff, G. McCarty, and Y. Yuan, (2014). [Conservation Practice Impacts on Nutrient Loads from the Maryland CEAP Choptank Watershed using AnnAGNPS](#). 69th SWCS International Annual Conference, Lombard, Illinois, U.S.A., July 27-30.
- [25] Bingner, R.L., Y. Yuan, **H.G. Momm**, and M. Anderson, (2014). [Evaluation of Watershed Conservation Management Practices to reduce Pollutant Loads in Grand Lake St. Marys Using AnnAGNPS](#). 69th SWCS International Annual Conference, Lombard, Illinois, U.S.A., July 27-30.
- [24] Gesh, K.R., R.R. Wells, **H.G. Momm**, S. Dabney, and R. Cruse, (2014). [Quantification of ephemeral gully erosion with close range digital photogrammetry](#). 69th SWCS International Annual Conference, Lombard, Illinois, U.S.A., July 27-30.
- [23] **Momm, H.G.**, R.L. Bingner, and Y. Yuan, (2013). [Watershed-Scale Evaluation of Riparian Vegetation Impacts on Water Quality](#). 23rd Tennessee Water Resources Symposium, Burns, Tennessee, U.S.A., April 3-5.

- [22] Bingner, R.L., R.A. Kuhnle, R.R. Wells, **H.G. Momm**, and J. Singh, (2013). [Watershed Conservation Integrated Practice Assessment Capabilities of the USDA AnnAGNPS Watershed Planning Technology](#). In proceedings of the ASABE 2013 Annual International Meeting, Kansas City, Missouri, U.S.A., July 21 – 24.
- [21] **Momm, H.G.**, R.R. Wells, and R.L. Bingner, (2013). [Measuring Gully Channel Widening using Open Source and Commercial GIS](#). Proceedings of the 6th International Symposium on Gully Erosion in a Changing World, Iasi, Romania, May 6-12.
- [20] Wells, R.R., **H.G. Momm**, J.R. Rigby, S.J. Bennett, R.L. Bingner, and S.M. Dabney, (2013). [Gully Widening: Effects of Slope and Discharge](#). Proceedings of the 6th International Symposium on Gully Erosion in a Changing World, Iasi, Romania, May 6-12.
- [19] Wells R.R., R.L. Bingner, C.V. Alonso, S.J. Bennett, J. Casali, S.M. Dabney, L.M. Gordon, E.J. Langendoen, **H.G. Momm**, M.J.M. Romkens, and G.V. Wilson, (2013). [An Introspective Look at Gully Erosion Research: Past, Present and Future](#). Proceedings of the 6th International Symposium on Gully Erosion in a Changing World, Iasi, Romania, May 6-12.
- [18] Easson C., D.J. Gochfeld, M. Slattery, **H.G. Momm**, J.B. Olson, and R.W. Thacker, (2013). [Inferring process from pattern: determining a transmission mechanism for Aplysina Red Band Syndrome \(ARBS\) in natural sponge populations using spatial analysis](#). Proceedings of the 42nd Benthic Ecology Meeting, Savannah, Georgia, U.S.A., March 20-24.
- [17] Nordberg, E.J., V.A. Cobb, and **H.G. Momm**, (2013). [Large Ranging Snakes in a Small Nature Preserve: the Seasonal Movement Patterns of Timber Rattlesnakes \(Crotalus Horridus\) in Middle Tennessee](#). Proceedings of the Southeast Partners in Amphibian and Reptile Conservation (SEPARC), McCormick, South Carolina, U.S.A., February 21-24.
- [16] Bingner R.L., **H.G. Momm**, R.R. Wells, and S.M. Dabney, (2012). [Contributions and Concerns of Concentrated Flow Erosion and Assessment Technologies in Watershed Systems](#). EGU General Assembly Conference, Vienna, Austria, April 22-27.
- [15] Ursic, M.E., E.J. Langendoen, **H.G. Momm**, D.G. Wren, and R.A. Kuhnle, (2012). [Using terrestrial LiDAR to characterize morphology and texture of a sand and gravel bed in a laboratory flume](#). Proceedings of the 2012 Hydraulic Measurements and Experimental Methods Conference, Snowbird, Utah, U.S.A., August 12-15.
- [14] Bingner, R.L., **H.G. Momm**, T.G. Mueller, Y. Yuan, and M.A. Locke, (2012). [Assessment of Riparian Buffers as an Alternative Conservation Practice using the USDA AnnAGNPS Watershed Pollutant Loading Model](#). Proceedings of the 67th International SWCS Annual Conference, Fort Worth, Texas, U.S.A., July 22-25.
- [13] **Momm, H.G.**, R.L. Bingner, R.R. Wells, and J.R. Bingner, (2012). [Effect of Topographic Characteristics on Compound Topographic Index for Identification of Gully Channel Initiation Location](#). Proceedings of the 67th International SWCS Annual Conference, Fort Worth, Texas, U.S.A., July 22-25.
- [12] **Momm, H.G.** and G.L. Easson, (2011). [Bridging the Semantic Gap Using Evolutionary Computation](#). Proceedings of the ASPRS 2011 Annual Conference, Milwaukee, Wisconsin, U.S.A., May 1-5.
- [11] **Momm, H.G.** and G.L. Easson, (2010). [Population Restarting: A Study Case of Feature Extraction From Remotely Sensed Imagery Using Textural Information](#). Proceedings of the 12th Annual Conference on Genetic and Evolutionary Computation, Portland, Oregon, U.S.A., July 7-11.
- [10] Easson, C., D. Gochfeld, **H.G. Momm**, M. Slattery, J. Olson, and R. W. Thacker, (2010). [Mapping impacts of disease on sponge communities using Geographic Information Systems \(GIS\)](#). International Sponge Symposium, Girona, Spain, September 20-24.

- [09] **Momm, H.G.** and G.L. Easson, (2009). [Improved Feature Extraction from High Resolution Remotely Sensed Imagery using Object Geometry](#). The Tenth Annual Conference on High Technology, Jackson, Mississippi, U.S.A., November 18-19.
- [08] **Momm, H.G.**, (2008). [Overview of the Tropical Rainfall Measuring Mission and the Next Generation Global Precipitation Mission](#). Technical Presentation at the Water Center for the Humid Tropics of Latin America & Caribbean (CATHALAC), City of Knowledge, Panama City, Panama, August, 19-20.
- [07] **Momm, H.G.** and G.L. Easson, (2008). [Assessment of a Non-linear Optimization Algorithm for Imagery Classification](#). Journal of the Mississippi Academy of Sciences, Vol. 53:1, pp. 96. [Awarded best research presentation in the Mathematics, Computer Science and Statistic Division]
- [06] **Momm, H.G.**, J. Kuzmaul, and G.L. Easson, (2007). [Coastal Louisiana Land Loss Modeling: An Optimized Logistic Regression Approach](#). Proceedings of the Mid-South Area Engineering and Sciences Conference, The University of Mississippi, Oxford, Mississippi, U.S.A., May 17-18.
- [05] **Momm, H.G.** and G.L. Easson, (2006). [Quantitative Comparison of Dense Cloud Detection of an Evolutionary Image Classification Algorithm to the MODIS Cloud Mask and to the VIIRS Cloud Mask](#). AGU Fall Meeting, San Francisco, California, U.S.A., December 11-15.
- [04] **Momm, H.G.**, H. Robinson, G. Easson, and H. Sloan, (2005). [Web-based Searching and Delivery of Geospatial Data Using ArcIMS and MYSQL](#). Sigma Xi Student Research Poster Symposium, University, Mississippi, USA.
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- [02] **Momm, H.G.**, H. Robinson, G.L. Easson, and H. Sloan, (2004). [Use of GIS Visualization Tools to Aid in Locating Traffic Monitoring Cameras](#). Sigma Xi Student Research Poster Symposium, University, Mississippi, U.S.A.
- [01] **Momm, H.G.**, B. Silva, V. Maddox, G.L. Easson, H. Lata, D. Ferreira, and R.M. Moraes, (2004). [GIS Methodology: A Tool for Accessing Chemo-Diversity in Medicinal Plants](#). Natural Center for Natural Products Research Poster Symposium, University, Mississippi, U.S.A.

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- [02] **Momm, H.G.**, R.L. Bingner, R.R. Wells, and S.D. Dabney, (2011). [Methods for Gully Characterization in Agricultural Croplands using Ground-Based Light Detection and Ranging](#). *Sediment Transport – Flow and Morphological Processes*. ABM Faruk Bhuiyan (Ed.), ISBN 978-953-307-374-3, InTech. [URL](#)
- [01] **Momm, H.G.** and G. Easson, (2011). [Feature Extraction from High-Resolution Remotely Sensed Imagery using Evolutionary Computation](#), *Evolutionary Algorithms*, Eisuke Kita (Ed.), ISBN: 978-953-307-171-8, InTech. [URL](#)

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- [05] **Momm, H.G.**, Z. Law, S.N. Hidayati, J. Walck, K. Sadler, M. Abolins, L. Simpson, and J. Aber, (2016). [National Resource Condition Assessment for Stones River National Battlefield](#). National Park Service, Fort Collins, Colorado.
- [04] Wilson G.V., R.R. Wells, S.M. Dabney, **H.G. Momm**, A.J. Hudspeth, E.A. Gregory, and R. Saunders, (2011). [Above Ground Plots at the MAFES-Holly Springs Experiment Station for Studying Impacts of Seepage on Erosion](#). National Sedimentation Laboratory Tech. Research Report No. 78. Oxford, MS. Watershed Physical Process Research Unit, National Sedimentation Laboratory.
- [03] Easson, G., B. Davis, **H.G. Momm**, and K. Holekamp, (2010). [SERRI Project: Specification, Validation, and Verification of Imagery Products for Disaster Management and Response](#). SERRI Report 63889-02.
- [02] Easson, G., **H.G. Momm**, and R. Bingner, (2009). [Evaluation for the Integration of a Virtual Evapotranspiration Sensor Based on VIIRS and Passive Microwave Sensors into the Annualized Agricultural Non-Point Source \[AnnAGNPS\] Pollution Model](#). Technical Report of the NASA - Rapid Prototyping Capability Research Grant No: NNS06AA98B, Order No: NNS07AA57T.
- [01] Kuszmaul, J., **H.G. Momm**, and G. Easson, (2007). [Rapid Prototyping of NASA Next Generation Sensors for the SERVIR System of Fire Detection in Mesoamerica](#). Technical Report of the NASA - Rapid Prototyping Capability Research Grant No. DONNS06AA65D.